



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-2310. You'll find the answers to all your questions on the DENON AVR-2310 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual DENON AVR-2310
User guide DENON AVR-2310
Operating instructions DENON AVR-2310
Instructions for use DENON AVR-2310
Instruction manual DENON AVR-2310

DENON

AV SURROUND RECEIVER
AVR-2310

Owner's Manual
Bedienungsanleitung
Manuel de l'Utilisateur
Manuale delle istruzioni
Manual del usuario
Gebruiksaanwijzing
Bruksanvisning

※ The illustrations used for explaining operations in this manual show the buttons of the remote control unit. The same operations can be performed using the buttons with the same names on the main unit panel.

※ Die in diesem Handbuch verwendeten Tasten-Illustrationen für die Betriebsanleitung beziehen sich auf die Fernbedienung. Sie können das Gerät mit der gleichnamigen Taste an der Frontkonsole des Gerätes bedienen.

※ Les illustrations des boutons présentes dans ce manuel servent à expliquer le fonctionnement de la télécommande. Vous pouvez contrôler l'appareil à l'aide du bouton portant le même nom sur la façade de l'appareil.

※ Le illustrazioni dei pulsanti mostrate in questo manuale di spiegazione si riferiscono al telecomando. E' possibile adoperare l'unità utilizzando i pulsanti del nome corrispondente presenti sul pannello frontale dell'unità.

※ Las ilustraciones de los botones utilizadas en este manual con propósitos de explicación son para la unidad del mando a distancia. Puede operar la unidad utilizando el botón del mismo nombre en el panel delantero de la unidad.

※ De gebruikte toetsillustraties in deze handleiding voor uitleg van de bediening zijn voor de afstandsbediening. U kunt het toestel bedienen door de toets met dezelfde naam op het voorpaneel van het toestel te gebruiken.

※ Bilder på knappar i denna bruksanvisning för att förklara användningen gäller fjärrkontrollen. Du kan också använda knapparna med samma namn på frontpanelen på enheten.

GUI Graphical User Interface

English

Use this manual in combination with the operating guide displayed on the GUI screen.

Menu Map (☞ page 20)
Examples of GUI Menu Screen Displays (☞ page 21)
Remote Control Unit Operations (☞ page 55)

Deutsch

Verwenden Sie dieses Handbuch zusammen mit den Bedienungsanweisungen auf dem GUI-Bildschirm.

Menüplan (☞ Seite 20)
Beispiele für GUI-Bildschirmanzeigen (☞ Seite 21)
Bedienung mit der Fernbedienung (☞ Seite 55)

Français

Utilisez ce manuel en même temps que le guide d'utilisation affiché sur l'écran GUI (interface graphique).

Plan du menu (☞ page 20)
Exemples d'affichage sur écran et d'affichage avant (☞ page 21)
Fonctionnement de la télécommande (☞ page 55)

Italiano

Usare questo manuale insieme alla guida operativa visualizzata sulla schermata GUI.

Mappa menu (☞ pagina 20)
Esempi di schermate GUI (☞ pagina 21)
Operazioni con telecomando (☞ pagina 55)

Español

Utilice este manual conjuntamente con la guía de uso que aparece en la pantalla GUI.

Estructura de los menús (☞ página 20)
Ejemplos de indicaciones que aparecen en la pantalla GUI (☞ página 21)
Operaciones con el mando a distancia (☞ página 55)

Nederlands

Gebruik deze gebruiksaanwijzing samen met de aanwijzingen die op het GUI-scherm worden getoond.

Overzicht van het menu (☞ blz. 20)
Voorbeelden van GUI menuschermen (☞ blz. 21)
Bedieningsmogelijkheden van de afstandsbediening (☞ blz. 55)

Svenska

Använd denna bruksanvisning i kombination med anvisningarna på GUI-skärmen.

Menyöversikt (☞ sidan 20)
Exempel på GUI-skärmar (☞ sidan 21)
Telemando principle (☞ sidan 55)



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Manual abstract:

Menu Map (vpage 20) Examples of GUI Menu Screen Displays (vpage 21) Remote Control Unit Operations (vpage 55) Deutsch Verwenden Sie dieses Handbuch zusammen mit den Bedienungsanweisungen auf dem GUI-Bildschirm. Menüplan (vSeite 20) Beispiele für GUI-Bildschirmanzeigen (vSeite 21) Bedienung mit der Fernbedienung (vSeite 55) AV SURROUND RECEIVER AVR-2310 Owner's Manual Bedienungsanleitung Manuel de l'Utilisateur Manuale delle istruzioni Manual del usuario Gebruiksaanwijzing Bruksanvisning b Les illustrations des boutons présentes dans ce manuel servent à expliquer le fonctionnement de la télécommande. Vous pouvez contrôler l'appareil à l'aide du bouton portant le même nom sur la façade de l'appareil. b Le illustrazioni dei pulsanti mostrate in questo manuale di spiegazione si riferiscono al telecomando. E' possibile adoperare l'unità utilizzando i pulsanti del nome corrispondente presenti sul pannello frontale dell'unità. b Las ilustraciones de los botones utilizadas en este manual con propósitos de explicación son para la unidad del mando a distancia. Puede operar la unidad utilizando el botón del mismo nombre en el panel delantero de la unidad. b De gebruikte toetsillustraties in deze handleiding voor uitleg van de bediening zijn voor de afstandsbediening. U kunt het toestel bedienen door de toets met dezelfde naam op het voorpaneel van het toestel te gebruiken. b Bilder på knappar i denna bruksanvisning för att förklara användningen gäller fjärrkontrollen. Du kan också använda knapparna med samma namn på frontpanelen på enheten. Français Utilisez ce manuel en même temps que le guide d'utilisation affiché sur l'écran GUI (Interface graphique). Plan du menu (vpage 20) Exemples d'affichage sur écran et d'affichage avant (vpage 21) Fonctionnement de la télécommande (vpage 55) Italiano Usare questo manuale insieme alla guida operativa visualizzata sulla schermata GUI. Mappa menu (vpagina 20) Esempi di schermate GUI (vpagina 21) Operazioni con telecomando (vpagina 55) Español Utilice este manual conjuntamente con la guía de uso que aparece en la pantalla GUI. Estructura de los menús (vpágina 20) Ejemplos de indicaciones que aparecen en la pantalla GUI (vpágina 21) Operaciones con el mando a distancia (vpágina 55) Nederlands Gebruik deze gebruiksaanwijzing samen met de aanwijzingen die op het GUI-scherm worden getoond. Overzicht van het menu (vblz. 20) Voorbeelden van GUI menuschermen (vblz. 21) Bedieningsmogelijkheden van de afstandsbediening (vblz. 55) Svenska Använd denna bruksanvisning i kombination med anvisningarna på GUI-skärmen. Menyöversikt (vsidan 20) Exempel på GUI-skärmar (vsidan 21) Telecomando principale (vsidan 55) ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA n SAFETY PRECAUTIONS RISK OF ELECTRIC SHOCK DO NOT OPEN 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. 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. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water.

Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 10. Only use attachments/accessories specified by the manufacturer. 11.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over. 12. Unplug this apparatus during lightning storms or when unused for long periods of time. 13.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like. 1.

2. 3. 4. 5. 6. 7. IMPOTANT SAFETY INSTRUCTIONS CAUTION: To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user. VORSICHT: Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION: Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement. ATTENZIONE: Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro. La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente. PRECAUCIÓN: Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared. El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso. WAARSCHUWING: Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.



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De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.
FÖRSIKTIHETSMÅTT: Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet. Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

I SVENSKA NEDERLANDS ESPAÑOL ITALIANO FRANCAIS DEUTSCH ENGLISH n NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE

ANVÄNDNINGEN CAUTION: The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. No naked flame sources, such as lighted candles, should be placed on the unit. Observe and follow local regulations regarding battery disposal.

Do not expose the unit to dripping or splashing fluids. Do not place objects filled with liquids, such as vases, on the unit.

· Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. · Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung 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 elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. · Evite altas temperaturas. Permita la suficiente dispersión del calor cuando está instalado en la consola. · Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. · Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. Keep the unit 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 la poussière. · 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 into the unit. Lassen Sie keine fremden Gegenstände in das Gerät kommen. Ne pas laisser des objets étrangers dans l'appareil. Non inserite corpi estranei 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. · 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 direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. · Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. · Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. · Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.

· 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. · Veuillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. · L'appareil ne doit pas être exposé à l'eau ou à l'humidité. · Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. ACHTUNG: ATTENTION: · Unplug the power cord when not using the unit for long periods of time. · Wenn das Gerät 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. · Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità 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 stopcontact wanneer het apparaat gedurende een lange periode niet wordt geb het apparaat. Houd u steeds aan de milieuvorschriften 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. · Ventilaciones bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv. · Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten. · Tänk på miljöaspekterna när du bortskaffar batterier. · Apparaten får inte utsättas för vätska. · Placera inte föremål fyllda med vätska, t.ex.

vaser, på apparaten. OBSERVERA: II ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA A NOTE ABOUT RECYCLING: This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive. · 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 2006/95/EC and 2004/108/EC Directive. ·

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.



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Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

HINWEIS ZUM RECYCLING: Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften. Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen. Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften. Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

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 2006/95/EC et 2004/108/EC.

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 2006/95/EC e 2004/108/EC. **QUESTO PRODOTTO E' CONFORME AL D.**

M. 28/08/95 N. 548 UNE REMARQUE CONCERNANT LE RECYCLAGE: Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés.

Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur. Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur. Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles. Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

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 2006/95/EC y 2004/108/EC.

NOTA RELATIVA AL RICICLAGGIO: I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili.

Smaltire i materiali conformemente alle normative locali sul riciclaggio. Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore. Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici. Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

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 2006/95/EC en 2004/108/EC. ACERCA DEL RECICLAJE: Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad. Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales. Las pilas nunca deberán tirarse ni incinerarse.

Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos. Este producto junto con los accesorios empacutados es el producto aplicable a la directiva RAEE excepto pilas. **ÖVERENSSTÄMMELSE** 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 2006/95/EC och 2004/108/EC. **DENON EUROPE Division of D&M Germany GmbH An der Landwehr 19, Nettetal, D-41334 Germany EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:** Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften. Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op. Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd. Op dit product en de meegeleverde accessoires, m.u.

v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing. OBSERVERA ANGÅENDE ÅTERTVINNING: Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kassera enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser. Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna. **III**

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To ensure proper operation, please read this owner's manual carefully before using the product.

After reading them, be sure to keep them for future reference. Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications Flow of operations through playback Perform the operations leading to playback on the AVR-2310 in the order shown below. Connections Installing/Setting the Speakers (vpage 10) Settings Audyssey™ Auto Setup (vpage 22) Playback Playing Components (vpage 39) Connecting the Speakers (vpage 11) Connecting Devices (vpage 12) Manual Setup (vpage 27) b Perform "Manual Setup" as necessary. Selecting the Surround Mode (vpage 44) Turning the Power On (vpage 19) Input Setup (vpage 34) Adjusting the Sound and Picture Quality (vpage 46) Selecting the Input Source (vpage 19) Accessories Check that the following parts are supplied with the product. qOwner's manual .

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..... 1 eService station list

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... 1 rPower cord (Cord length: Approx. 1.7 m)

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.. 1 t Remote control unit (RC-1117) ...

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..... 1 y R6/AA batteries

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. 2 uFM indoor antenna

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.. 1 iAM loop antenna

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. 1 oSetup microphone (DM-A409, Cord length: Approx. 7.6 m)

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..... 1 r t u i o 2 ENGLISH Cautions on Handling · Before turning the power switch on Check once again that all connections are correct and that there are no problems with the connection cables. · Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

· About condensation If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly. If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit. · Cautions on using mobile phones Using a mobile phone near this unit may result in noise.

If so, move the mobile phone away from this unit when it is in use. · Moving the unit Turn off the power and unplug the power cord from the power outlet.

Next, disconnect the connection cables to other system units before moving the unit. · Note that the illustrations in these instructions may differ from the actual unit for explanation purposes. About the Remote Control Unit In addition to the AVR-2310, the included remote control unit (RC1117) can also be used to operate the equipment listed below. q DENON system components w Non-DENON system components · By setting the preset memory (vpage 55) Operating Range of the Remote Control Unit Point the remote control unit at the remote sensor when operating it. Getting Started Connections Inserting the Batteries q Lift the clasp and remove the w Load the two batteries properly rear cover.

as indicated by the marks in the battery compartment. R6/AA Settings 30° 30° Approx. 7 m Playback Multi-Zone NOTE The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light. Remote Control e Put the rear cover back on. NOTE · Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. · The supplied batteries are only for verifying operation. · When inserting the batteries, be sure to do so in the proper direction, following the "q" and "w" marks in the battery compartment. · To prevent damage or leakage of battery fluid: · Do not use a new battery together with an old one. · Do not use two different types of batteries. · Do not attempt to charge dry batteries.

· Do not short-circuit, disassemble, heat or dispose of batteries in flames. · If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries. · Remove the batteries from the remote control unit if it will not be in use for long periods. · Used batteries should be disposed of in accordance with the local regulations regarding battery disposal. Information Cautions on Installation Note: For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure. b Note b b Troubleshooting Specifications b Wall ENGLISH Part Names and Functions Front Panel W7 o W6 W5 W4 W3 W2 W1 i Button that function in the same way as remote control buttons For buttons not explained here, see the page indicated in parentheses (). Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications q

Power operation button (ON/STANDBY) (19) Q0 Q1 W8 Q2 Q3 Q4 Q5 W9 E0 w SURROUND MODE buttons (44) e

MENU button (20) r Cursor buttons (uio p) (20) t ENTER button (20) y RETURN

button (20) u QUICK SELECT buttons (53) i MASTER VOLUME control knob (39) o SOURCE

SELECT knob (19) Q0 ZONE2 SELECT button (54) Q1 ZONE2 ON/OFF button (54) Q2 RESTORER

button (50) Q3 DYNAMIC EQTM button (49) Q4 DYNAMIC VOLUMETM button (49) Q5

MULTEQ® button (48) n Buttons that function in the same way as front panel buttons Front Rear q Q6 Q7 Q8 w e r t y Q9 W0 u qq

uu Q1 Q1 o, Q0 ,Q0 o Buttons, terminals and displays only provided on the main unit Q6 Power indicator (19) Q7 Power switch

(hON jOFF) (19, 68) Q8 Headphones jack (PHONES) (43) Q9 V.



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AUX INPUT connectors (16) W0 SETUP MIC jack (23) W1 AUDYSSEY DYNAMIC VOLUMETM indicator
control sensor..... (49) W2 AUDIO indicator (44) HD W3 MASTER VOLUME indicator W4 Display W5 Remote
SPEAKERS SELECT button (3) W6 TUNING PRESET button (41) W7 SOURCE MODE SELECT button..... (19) W8 FRONT
(43) W9 DIMMER button (33) E0 STATUS button (51) o,Q0 ,Q0 o
ii Q2 Q2 ww Q3 Q3 Q4 Q4 Q5 Q5 ee rr tt o,Q0 ,Q0 o Q0 Q0 yy ENGLISH Part Names and Functions Getting Started Display Q7 Q6 Q5 Q4 Q3 Q2Q1 Q0 o
iu Q7 Tuner reception mode indicators This lights according to the reception conditions when the input source is set to "TUNER". · STEREO In the FM mode,
this lights when receiving analog stereo broadcasts. · TUNED This lights when the broadcast is properly tuned in.
· AUTO This lights when in the auto tuning mode. · RDS This lights when receiving RDS broadcasts. Connections Settings q w e Q0 AUDYSSEY indicator rty
Playback q Input audio signal indicators w Input signal channel indicators These light when digital signals are input. When playing HD Audio sources, the " " indicator lights when an extension channel (a channel other than the front, center, surround, surround back or LFE channel) is input. If there are two or more extension channels, the " " and " " indicators light.

These light as shown below in the different modes (vpage 48). Multi-Zone : During "MultEQ" operation : During "MultEQ" operation : During "MultEQ" operation Remote Control e Information display The input source name, surround mode, setting values and other information are displayed here. : During "MultEQ" "Dynamic EQ" , , "Dynamic Volume" operation Information bWhen speaker settings are changed after r Output signal channel indicators t Front speaker indicator These light according to the settings of the front A and B speakers (vpage 43). y Monitor output indicators These light according to the HDMI monitor output setting. "AudysseyTM Auto Setup" procedure, either the indicators' frame turns off or all the indicators turn off.

Q1 SLEEP TIMER indicator Lights when the sleep timer is operating (vpage 52). Troubleshooting Q2 RESTORER indicator Lights during "RESTORER" operation (vpage 50). u QUICK SELECT indicators These light when the Quick Select function is set (vpage 53). Q3 Input mode indicators Q4 ZONE2 indicator Lights when signals are being output to the ZONE2 (vpage 54). Specifications i Master volume indicator o MUTE indicator Lights when the muting mode is set (vpage 43). Q5 HDMI indicator Lights when HDMI input signals are detected (vpage 13). Q6 Decoder indicators The indicator for the currently operating decoder lights. ENGLISH Part Names and Functions Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications Rear Panel Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0 o i q w e r t y u Q5 RS-232C connector (18) Q6 VIDEO/S-VIDEO connectors (15) Q7 Control dock for iPod DOCK CONTROL jack (14) q Digital audio connectors (18) t (15) w Analog audio connectors (14) e SIGNAL GND terminal (15) r TRIGGER OUT jacks (18) t REMOTE CONTROL jacks (18) y EXT.



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IN connectors	(16)	u ZONE2 connectors	(54)	i AC OUTLET	(18)	o AC inlet (AC IN).....	(18)
Q0 Speaker terminals	(11)	Q1 FM/AM antenna terminals	(17)	Q2 PRE OUT connector	(13)	ENGLISH Part Names and Functions Getting Started Remote Control Unit Front q w e r t Q6 W0 Rear q Remote control signal transmitter w Indicator	(55)
Q3 COMPONENT VIDEO connectors	(14)	Q4 HDMI connectors	(13)	e Power buttons	(19)	r QUICK SELECT buttons	(53)
Q5 ENTER button	(19)	y System buttons	(55)	u MENU button	(20)	i Cursor buttons (uiop)	(20)
Q6 ZONE2 power button	(20)	Q7 Tuner operation buttons	(41)	Q8 MULTEQ® button	(48)	Q9 Number buttons (0 ~ 9, +10).....	(55)
Q9 Number buttons (0 ~ 9, +10).....	(55)	W0 MAIN ZONE power buttons	(19)	W1 INPUT MODE button.....	(37)	W2 SLEEP TIMER button	(52)
W2 SLEEP TIMER button	(52)	W3 VIDEO SELECT button	(36)	W4 RESTORER button.....	(50)	W5 FRONT HEIGHT SPEAKER ON/OFF button	(47)
W4 RESTORER button.....	(50)	W5 FRONT HEIGHT SPEAKER ON/OFF button	(44)	W6 Surround mode buttons	(49)	W7 DYNAMIC VOLUMETM button	(49)
W5 FRONT HEIGHT SPEAKER ON/OFF button	(44)	W6 Surround mode buttons	(49)	W7 DYNAMIC VOLUMETM button	(49)	W8 DYNAMIC EQTM button	(49)
W6 Surround mode buttons	(49)	W7 DYNAMIC VOLUMETM button	(49)	Operations Possible by Remote Control Unit n Operations on the AVR-2310 n Operations on six devices other than the AVR-2310 · Preset the remote control codes of the devices to be operated (vpage 55).			



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· Switch two device selector switches according to the devices to be operated.

Position of switches Operable devices Connections Settings Playback t W1 W2 W3 W4 Q1 Q7 Q2 u i o t Q0 Q9 Q4 Q5 Q3 Q8 W5 W6 W7 W8 Multi-Zone y AVR-2310 (MAIN ZONE) iPod AVR-2310 (ZONE2) TV Blu-ray disc player or DVD Player DVD recorder or Video deck Satellite receiver or Cable TV CD player Remote Control Information Troubleshooting For buttons not explained here, see the page indicated in parentheses (). Specifications NOTE · Buttons on the back panel may operate when the back lid is pressed. · The SAT TU button cannot be used. n ZONE2 operations (vpage 54) n Punch through setting (vpage 57) ENGLISH Connections n Connection Flow Installing/Setting the Speakers (vpage 10) Getting Started Connections Settings Playback Multi-Zone

Remote Control Information Troubleshooting Specifications Important Information Connections for all compatible audio and video signal formats are described in this owner's manual. Please select the types of connections suited for the equipment you are connecting. After connections are completed, certain settings must be made on the receiver. Make the settings indicated "Set as necessary" for the individual items. Cables Used for Connections Select the cables according to the equipment being connected. Connecting the Speakers (vpage 11) Audio and video cables HDMI connections HDMI cable NOTE Connecting Devices (vpage 12) · Do not plug in the power cord until all connections have been completed. · When making connections, also refer to the operating instructions of the other components.

· Be sure to connect the left and right channels properly (left with left, right with right). · Do not bundle power cords together with connection cables. Doing so can result in humming or noise. Audio cables Coaxial digital connections Optical digital connections Analog connections (White) (Red) L R Coaxial digital cable Connecting Devices not Equipped with HDMI terminals (vpage 13) Optical cable L R n HDMI (vpage 12) n Monitor (TV) (vpage 13) n Playback Components · Blu-ray Disc player / DVD player (vpage 14) · iPod® (vpage 14) · CD Player (vpage 14) · Record Player (vpage 15) Stereo pin-plug cable Analog connections (monaural, for subwoofer) Speaker connections Pin-plug cable n Recording Components · Digital Video Recorder (vpage 15) · Video Cassette Recorder (vpage 15) Speaker cables n SAT/CABLE Tuner (vpage 16) n Other Devices Video cables Component video connections (Green) (Blue) (Red) Component video cable · Video Camera / Game Console (vpage 16) · Component with Multi-channel Output connectors (vpage 16) · Antenna terminals (vpage 17) · External Power Amplifier (vpage 17) · External Controller (vpage 18) S-Video connections S-Video cable n Power Cord Video connections (Yellow) 75 ohms pin-plug video cable Turning the Power On (vpage 19) 8 ENGLISH Important Information Getting Started Converting Input video signals for Output (Video Conversion Function) The AVR-2310 is equipped with four types of video input/output terminals (HDMI, Component video, SVideo and video). Use the terminals according to the devices to be connected.

This function automatically converts various formats of video signals input to the AVR-2310 into the format used to output the video signals from the AVR-2310 to a monitor. AVR-2310 Video device Monitor Set as Necessary · Set when using the video conversion function. "Video Convert" (vpage 36) · Set when changing the resolution of the video signal. "Resolution" (vpage 36) Connections Resolutions of HDMI-compatible TVs can be checked at "HDMI Information" (vpage 51). NOTE · HDMI signals cannot be converted into analog signals.

· When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. · 480p/576p/1080i/720p/1080p component video input signals cannot be converted into S-Video or Video format. Settings Playback Output Input (IN) HDMI connector Output (MONITOR OUT) HDMI connector Input n Examples of GUI menu · Menu screen · Status display screen When the input source is switched When the volume is adjusted Multi-Zone HDMI connector HDMI connector Remote Control Component video connectors S-Video connector Component video connectors S-Video connector Component video connectors S-Video connector Component video connectors S-Video connector MENU Audio/Video Information Auto Setup Manual Setup Input Setup Adjust Information Video connector Video connector Video connector Video connector Adjust various audio and video parameters Input Mode DVD STEREO Auto Master Volume -80.0dB : When 480i/576i signals are input Status display: The operating status is displayed temporarily on the screen when the input source is switched or the volume is adjusted. Troubleshooting · The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats. · The resolution of the video signal input to the AVR-2310's HDMI terminal is the resolution set at "Resolution" (vpage 36). (1080p HDMI signals and 1080p component signals are output at 1080p, regardless of the setting.) Specifications ENGLISH Installing/Setting the Speakers · The AVR-2310 is compatible with various types of surround playback. · Decide on the surround modes to be played on the AVR-2310 before making connections and settings.

a Determine the Speaker Layout Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them. z4 z5 Surround speakers Surround back speakers GAs seen from aboveH Surround Surround back speaker speaker Front speaker 60 to 90 cm Point slightly downwards z2 4 Surround speaker Surround back speakers Surround speaker Surround speakers Surround back speaker GAs seen from aboveH z Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications n When 7.1ch (Surround Back Speaker) Connected Front speakers Center speaker Monitor Subwoofer n When 5.1ch Connected Front speakers Center speaker Monitor Subwoofer z1 z1: 22 ~ 30° z2: 90° z3: 110° z 3 z4: 30° z5: 45° z1: 22 ~ 30° z2: 120° z1 z 2 Front speaker Surround speaker 60 to 90 cm Installing All the Speakers Front Height speakers Surround speakers GAs seen from aboveH GAs seen from the sideH GAs seen from the sideH Front speakers Subwoofer Center speaker n When 6.



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1ch Connected Front speakers Center speaker Monitor Subwoofer n When 7.1ch (Front Height Speaker) Connected z1: 22 ~ 30° z2: 90° z3: 110° Front height speakers Front speakers Center speaker Subwoofer Surround Surround back speaker speaker Front speaker 60 to 90 cm Point slightly downwards z2 z1 z1: 30° z2: 45° z3: 90° z4: 110° z1 z2 z3 Monitor z3 Point slightly downwards Front height speaker Front speaker 60 to 90 cm Surround speaker NOTE It is not possible to use the front height speakers and surround back speakers simultaneously. GAs seen from the sideH Surround speakers GAs seen from aboveH GAs seen from the sideH 0 ENGLISH Installing/Setting the Speakers Connecting the Speakers Front speakers A Subwoofer with built-in amplifier Front speakers B Center speaker Surround speakers Getting Started s Set the "Amp Assign" Mode According to the Speaker Layout The signals output from the AVR-2310's SURR. BACK/AMP ASSIGN speaker terminals can be switched to signals of the surround mode being used (vpage 27 "Amp Assign").

Connections Amp assign mode (vpage 27) SURR.

BACK/AMP ASSIGN Speaker connections Example of speaker installation (L) (R) (L) (R) (L) (R) w q q w q w q w q w q w Settings Normal (Default) Surround back speakers (7.1) Playback Normal Surround back speakers b Connect to the "L" speaker terminal. b Set "S.Back" (vpage 28) to "1spkr". Not connected Multi-Zone (6).

1) Remote Control Normal b Set the "S.Back" setting (vpage 28) to "None". (5.1) Information Front Height Front Height speakers (7.1) For connections of the SURR.

BACK/AMP ASSIGN speaker terminals, see "Amp Assign" (vpage 27). Troubleshooting Protection circuit If the core wires touch the rear panel and the screws etc., or the ± sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs. If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power supply cord is withdrawn, please confirm that speaker cable and input cable are connected. Also, if replaying large sound levels by using a speaker having an impedance less than that specified (eg. 4 /ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals. In this case, please switch off the power supply, and wait until the AVR-2310 has cooled down, and the surrounding ventilation is good. Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-2310 has failed, please contact DENON Service center after switching off.

Front A Bi-Amp or Front B Bi-Amp Front A or B speakers b For connections, see "About bi-amp connections" (vpage 12). (5.1) Specifications MAIN ZONE ZONE2 ZONE2 speakers (5.1) ZONE2 (2) ENGLISH Connecting the Speakers Connecting the Speaker Cables Carefully check the left (L) and right (R) channels and + (red) and (black) polarities on the speakers being connected to the AVR-2310, and be sure to interconnect the channels and polarities correctly. About bi-amp connections These connections make for higher quality playback sound with no interference between the signals of the bass and treble units. When the amplifier assignment mode is set to "Front A Bi-Amp" or "Front B Bi-Amp" connect as shown below. (The illustration shows a , connection example for the front B Bi-Amp speakers.) Front speakers B Connecting Devices Connecting Devices Equipped with HDMI terminals Important Information n About HDMI "HDMI" is the abbreviation of "High Definition Multimedia Interface" This interface allows transfer of digital video signals . and digital audio signals over a single HDMI cable. Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications 1 Peel off about 10mm of sheathing from the tip of the speaker cable, then neither twist the core wire tightly or terminate it.

Turn the speaker terminal counterclockwise to loosen it. Insert the speaker cable's core wire to the hole into the speaker terminal.

Turn the speaker terminal clockwise to tighten it. 2 3 4 q w q w "HDMI" "HDMI logo" and "High-Definition Multimedia Interface", are trademarks or registered trademarks of HDMI Licensing LLC. (L) AVR-2310 (R) n Functions usable with HDMI connections Deep Color Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Use speakers with an impedance of 6 to 16 /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 12 to 16 /ohms. x.v.Color Enables displays with natural, vivid colors.

"x.v.Color" is a Sony registered trademark. NOTE · Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and sides touch each other ("Protection circuit"). · Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock. Auto Lip Sync (vpage 30) HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy. When in the "Front A Bi-Amp" and "Front B Bi-Amp" modes, the same signals are output from the front speaker terminals and the AMP ASSIGN terminals.

HDMI control function (vpage 30, 52) This function allows you to operate external devices from the receiver and operate the receiver from external devices. NOTE · Use speakers compatible with bi-amp connections. · When making bi-amp connections, be sure to remove the shortcircuiting plate or wire between the speaker's woofer and tweeter terminals. NOTE · These functions will not work if the device connected to the HDMI terminal does not support Deep Color or x.v.Color signal transfer or the Auto Lip Sync function. · The HDMI control function may not work depending on the device it is connected to and its settings. · You cannot operate a TV or Blu-ray Disc player / DVD player that is not compatible with the HDMI control function. 2 ENGLISH Connecting devices n Copyright protection system (HDCP) The AVR-2310 supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copyright protection technology for digital video signals.

The devices connected to the AVR-2310 must also support HDCP .



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NOTE · If the menu "HDMI Audio Out" setting (vpage 30) is set to "Amp", the sound may be interrupted when the monitor's power is turned off. · The audio signal from the HDMI output terminal (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs. Connecting Devices not Equipped with HDMI terminals Monitor (TV) · Select the terminal to use and connect the device. · For video connections, see "Converting input video signals for output (Video Conversion Function)" (vpage 9). For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12. Monitor (TV) Getting Started Connections NOTE When a device that does not support HDCP is connected, video signals are not properly output. n Connecting to a device equipped with a DVI-D Settings Connections The AVR-2310 allows connection of inputs from up to 5 HDMI devices and output to 1 TV. When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D terminal.

terminal Playback NOTE · No sound is output when connected to a device equipped with a DVI-D terminal. Also make the audio connections. · Signals cannot be output to DVI-D devices that do not support HDCP. · Depending on the combination of devices, the video signals may not be output. Multi-Zone DVD Player Blu-ray Disc Player SAT/CABLE Tuner Digital Video Recorder Game Console Monitor (TV) Remote Control n Settings related to HDMI connections Set as necessary. For details, see the respective reference pages. Input terminal assignment (vpage 35) HDMI Setup (vpage 30) Set this when changing the input sources of the different terminals. Make these settings related to HDMI input/output signals. · RGB Range · Auto Lip Sync · HDMI Audio Out · HDMI Control · Standby Source · Power Off Control Information Troubleshooting · Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).

· When the AVR-2310 is connected to other devices with HDMI cables, also connect the AVR-2310 and TV using an HDMI cable. · When a device supporting Deep Color signal transfer is connected, use a cable compatible with HDMI ver.1.3a. · Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc player / DVD player's resolution to a resolution with which the monitor is compatible. NOTE The audio signals output from the HDMI connectors are only the HDMI input signals. Specifications The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions. ENGLISH Connecting Devices not Equipped with HDMI terminals Getting Started Connections Settings Playback L R Playback Components Blu-ray Disc player / DVD player Select the terminal to use and connect the device.

For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12. Blu-ray Disc player / DVD player Control dock for iPod® Use a DENON control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W sold separately) to connect the iPod to the AVR-2310. For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions. Control dock for iPod ASD-3N or ASD-3W CD Player CD Player L R L R R L Multi-Zone Remote Control Information Troubleshooting Specifications R L R L Set as necessary Set this to change the input signal to which the input source is assigned. "Input Assign" (vpage 35) Set as necessary Set as necessary Set this to change the input signal to which the input source is assigned.

"Input Assign" (vpage 35) Set this to assign the iPod to a terminal other than "VCR (iPod)". "iPod Dock" (vpage 35) NOTE When connected to a Blu-ray Disc player, and playing Dolby TrueHD, DTS-HD, Dolby Digital Plus, connect the HDMI. With the default settings, the iPod can be used connected to the VCR (iPod) connector. ENGLISH Connecting Devices not Equipped with HDMI terminals Getting Started Record Player Turntable (MM cartridge) Recording Components Digital Video Recorder Select the terminal to use and connect the device. For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12.

DVD Recorder Video Cassette Recorder Select the terminal to use and connect the device. For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12. Video cassette recorder Connections Settings L L R R L R Playback L R L R Multi-Zone L R L R L R Remote Control Information · The AVR-2310 is compatible with record players with an MM cartridge. When you connect to a record player with an MC cartridge, use a commercially available MC head amp or a stepup transformer. · When you increase the volume without connecting the record player, there may be "booming" noise from the speakers. Troubleshooting Set as necessary Set as necessary Set this to change the input signal to which the input source is assigned. "Input Assign" (vpage 35) Set this to change the input signal to which the input source is assigned. "Input Assign" (vpage 35) Specifications NOTE The SIGNAL GND terminal of the AVR-2310 is not a safety ground connection. Connect it to reduce noise when noise is excessive. Note that depending on the record player, connecting the ground line may have the reverse effect of increasing noise.

In this case, it is not necessary to connect the ground line. NOTE · To record video signals through the AVR-2310, use the same type of video cable for connection between the AVR-2310 and the player as the cable used for connection between the AVR2310 and the recorder. · Digital signals are not output from the analog REC OUT connector. NOTE · To record video signals through the AVR-2310, use the same type of video cable for connection between the AVR-2310 and the player as the cable used for connection between the AVR-2310 and the recorder. · Do not connect the output of the component connected to the AVR-2310's OPTICAL2 output connector to any input connector other than OPTICAL2. · Digital signals are not output from the analog REC OUT connector. ENGLISH Connecting Devices not Equipped with HDMI terminals Getting Started Connections Connections Settings L L R R SAT/CABLE Tuner Select the terminal to use and connect the device.



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