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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-1611. You'll find the answers to all your questions on the DENON AVR-1611 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-1611
User guide DENON AVR-1611
Operating instructions DENON AVR-1611
Instructions for use DENON AVR-1611
Instruction manual DENON AVR-1611

DENON

AV SURROUND RECEIVER

AVR-1611

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

Simple version
Einfache Variante
Version simplifiée
Versione semplice
Versión sencilla
Eenvoudige versie
Enkel versie

Basic version
Basisausführung
Version basique
Versione base
Versión básica
Basisversie
Grundläggande version

Advanced version
Anleitung für Fortgeschrittene
Version avancée
Versione avanzata
Versión avanzada
Geavanceerde versie
Avancerad version

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Manual abstract:

@@@2. 3. 4. 5. 6. @@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. @@13. Refer all servicing to qualified service personnel. @@14. @@@@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. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIGHETSÅTT: 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 WARNINGS · Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. · Handle the power cord carefully. Hold the plug when unplugging the cord.

· Keep the unit free from moisture, water, and dust. · Unplug the power cord when not using the unit for long periods of time. · Do not obstruct the ventilation holes. · Do not let foreign objects into the unit. · Do not let insecticides, benzene, and thinner come in contact with the unit.

· Never disassemble or modify the unit in any way. · Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains. · Naked flame sources such as lighted candles should not 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. · Do not handle the mains cord with wet hands. · When the switch is in the OFF position, the equipment is not completely switched off from MAINS. · The equipment shall be installed near the power supply so that the power supply is easily accessible. WARNHINWEISE · Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. · Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. · Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. · Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.

· Decken Sie den Lüftungsbereich nicht ab. · Lassen Sie keine fremden Gegenstände in das Gerät kommen. · Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. · Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. · 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. · Das Netzkabel nicht mit feuchten oder nassen Händen anfassen. · Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt. · Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann. AVERTISSEMENTS · Eviter des températures élevées.

Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. · Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. · Protéger l'appareil contre l'humidité, l'eau et la poussière. · Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.

· Ne pas obstruer les trous d'aération. · Ne pas laisser des objets étrangers dans l'appareil. · Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. · Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.



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· Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. · Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées. · Veillez 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.

· Ne pas manipuler le cordon d'alimentation avec les mains mouillées. · Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). · L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible. AVVERTENZE · 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. · Manneggiate il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. · Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. · Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. · Non coprite i fori di ventilazione.

· Non inserite corpi estranei all'interno dell'unità. · Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. · Non smontate né modificate l'unità in alcun modo. · Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. · Non posizionate sull'unità fiamme libere, come ad esempio candele accese.

· Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. · L'apparecchiatura non deve essere esposta a gocciolii o spruzzi. · Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi. · Non toccare il cavo di alimentazione con le mani bagnate. · Quando l'interruttore è nella posizione OFF, l'apparecchiatura non è completamente scollegata da MAINS.

· L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile. ADVERTENCIAS · Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. · Maneje el cordón de energía con cuidado. Sostenga la; aspekterna när du bortskaffar batterier. · Apparaten får inte utsättas för vätska. · Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten. · Hantera inte nätsladden med våta händer.

· Även om strömbrytaren står i det avstängda läget OFF, så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS). · Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå. 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 Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its framework Directive 2009/125/EC for Energy-related Products (ErP). · 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. Following the provisions of low voltage directive 2006/95/EC and EMC directive 2004/108/EC, the EC regulation 1275/2008 and its fra z Stellen Sie das Gerät nicht an einem geschlossenen Ort, wie in einem Bücherregal oder einer ähnlichen Einrichtung auf, da dies eine ausreichende Belüftung des Geräts behindern könnte. · Empfohlen wird über 0,3 m. · Keine anderen Gegenstände auf das Gerät stellen. z Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire. · Une distance de plus de 0,3 m est recommandée.

· Ne placez aucun matériel sur cet appareil. z Per una dispersione adeguata del calore, non installare questa apparecchiatura in uno spazio ristretto, come ad esempio una libreria o simili. · Si raccomanda una distanza superiore ai 0,3 m. · Non posizionare alcun altro oggetto o dispositivo su questo dispositivo. z Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.

· Se recomienda dejar más de 0,3 m alrededor. · No coloque ningún otro equipo sobre la unidad. z Plaats dit toestel niet in een kleine afgesloten ruimte, zoals een boekenkast e.d., omdat anders de warmte niet op gepaste wijze kan worden afgevoerd. · Meer dan 0,3 m is aanbevolen. · Plaats geen andere apparatuur op het toestel. z För att tillförsäkra god värmeavledning får utrustningen inte installeras i instängda utrymmen, som t.ex. en bokhylla eller liknande.

· Mer än 0,3 m rekommenderas. · Placera ingen annan utrustning ovanpå den här enheten. ACERCA DEL RECICLAJE: · 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 voorzieningen van lage spanningsrichtlijn 2006/95/EC en EMC-richtlijn 2004/108/EC, de EU-richtlijn 1275/2008 en de kaderrichtlijn 2009/125/EC voor energieverbruikende producten (ErP).

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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 empacados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING MET BETREKKING TOT DE RECYCLING: · ÖVERENSSTÄMMELSEINTYG 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. Uppfyller reglerna i lågspänningsdirektivet 2006/95/EC och EMC-direktivet 2004/108/EC, EU-förordningen 1275/2008 och ramverksdirektivet 2009/125/EC för energirelaterade produkter (ErP). DENON EUROPE Division of D&M Germany GmbH An der Kleinbahn 18, Nettetel, D-41334 Germany 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 ÅTERVINNING: Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar 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 ENGLISH Getting started Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manual carefully before using the product. After reading them, be sure to keep them for future reference. Simple version Contents

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This symbol indicates a supplementary information and tips for operations. The operations described in this manual are based mainly on remote control operation. NOTE This symbol indicates points to remember operations or function limitations. Information n Illustrations Note that the illustrations in these instructions are for explanation purposes and may differ from the actual unit.

1 ENGLISH Features Fully Discrete, identical quality and power for all 5 channels (110 W x 5ch) Auto setup function The unit is equipped with a power amplifier that plays back highfidelity sound in surround mode with equal quality and power for all channels, true to the original sound. The power amplifier circuit adopts a discrete-circuit configuration that achieves high-quality surround sound play back. The unit is provided with an "Auto setup function" which automatically makes speaker settings best suited for the listening environment. The sound from the speakers is picked up with the supplied microphone.

Reflecting sound and audio characteristics of speakers are measured, and settings for an optimum sound field are automatically made.

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 going on vacation 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 that occurs, 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. · About Care · Wipe the cabinet and control panel clean with a soft cloth.

· Follow the instructions when using a chemical cleaner. · Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used. Supports HDMI 1.4 with 3D, ARC, Deep Color, x.v.Color, Auto Lipsync and HDMI control function Upconverting of all types of source video signals to HDMI signals This unit is provided with functions for automatic conversion of various video signals (component video, S-Video, video) that are input to this unit into HDMI signals for output to a monitor, allowing connection between this unit and a TV to be made with a single HDMI cable. This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system. This unit also supports the ARC (Audio Return Channel) function, which plays back TV sound with this unit via an HDMI cable used for connecting the unit and a TV. zThe TV should support the ARC function. Dock connectivty for iPod and network streaming 4-HDMI inputs and 1-output The unit is equipped with 4 HDMI input connectors for connecting devices with HDMI connectors, such as a Blu-ray Disc player, game machine, HD video camera, etc.

If an optional DENON control dock for iPod (ASD-3N, ASD-3W, ASD-51N or ASD-51W) is connected to this unit, you can listen to Internet radio or enjoy music and photos stored in your PC. zAn Internet connection environment is required. High Definition Audio Support The unit is equipped with a decoder which supports high-quality digital audio format for Blu-ray Disc players such as Dolby TrueHD, DTS-HD Master Audio, etc. Dolby Pro Logic gz The unit is provided with a Dolby Pro Logic gz decoder. When you play back the sound in Dolby Pro Logic gz playback with front height speakers connected to the unit, you can enjoy playback sound with rich spacial expression.

Easy to use, On-Screen Display Simple settings are enabled with the setting menus displayed on the TV screen. When you control the sound volume, the volume level is displayed on the screen, and when you switch the input source, the name of the input source is displayed. 2 ENGLISH Simple version Simple version (Simple setup guide) Simple version Here, we explain the entire setup procedure, from unboxing the unit to using it in a home theater. The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers.

See page 29 for the installation, connection and setup methods for speakers other than 5.1-channel speakers. n Before connecting the unit, turn off the power to all devices. n For operation of the connected devices, refer to the user manuals for each device. Basic version 1 Install (vpage 4) 2 Connect (vpage 4) 3 Turn on power (vpage 6) 4 Set up speakers (vpage 6) 5 Play back disc (vpage 11) Advanced version Enjoy better audio, using the correct install method. Connect 5.1-channel speakers, a TV and Bluray Disc player equipped with an HDMI connector. Use the setup microphone (DM-A409) included with the product, for automatic setup. Enjoy Blu-ray Disc and DVD in surround sound. Information Set Up Speakers (Audyssey® Auto Setup) Preparation Step 1 Speaker Detection Step 2 Measurement Step 3 Calculating Step 4 Check Step 5 Store Finish 3 ENGLISH 1 Install 1 2 3 4 5 2 Connect Speakers Carefully check the left (L) and right (R) channels and + (red) and (black) polarities on the speakers being connected to the this unit, and be sure to interconnect the channels and polarities correctly.

Connecting the speaker cables Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it. 1 2 3 4 5 This unit can perform 2.0/2.1 to 7.1-channel surround playback. Here, we explain setup using the example of 5.1-channel speaker playback. NOTE · Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and sides touch each other (vpage 69 "Protection Circuit"). · Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock. · Use speakers with the speaker impedances shown below. FL SW C 22 30° FR Speaker terminals FRONT CENTER SURROUND Speaker impedance 6 16 120° SL Listening position SR FL FR C SW SL SR Front speaker (L) Front speaker (R) Center speaker Subwoofer Surround speaker (L) Surround speaker (R) · Install the surround speakers in a position 60 to 90 cm higher than ear level.



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Surround speaker 60 90 cm Front speaker GV
Viewed from the side H 4 The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers.

See page 29 for the installation, connection and setup methods for speakers other than 5.1-channel speakers. ENGLISH Simple version Connect Blu-ray Disc player and TV Use only an HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (a certified HDMI product). Using a cable without the HDMI logo (an uncertified HDMI product) may result in abnormal playback. When outputting Deep Color or 1080p, etc.

, we recommend you use "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet" for enhanced high-quality playback. TV Basic version Blu-ray Disc player Audio cable (sold separately) Advanced version HDMI OUT HDMI IN HDMI cable (sold separately) HDMI cable (sold separately) FL SW C FR Subwoofer with built-in amplifier Speaker cables (sold separately) SL Information SR To household power outlet (AC 230 V, 50 Hz) Power cord (supplied) NOTE · Do not plug in the power cord until all connections have been completed. · Do not bundle power cords together with connection cables. Doing so can result in humming or noise. 5 ENGLISH 3 Turn on power 1 Turn on the TV and subwoofer power. 1 2 3 4 5 4 Set up speakers (Audyssey® Auto Setup) 1 2 3 4 5 Power on 2 Change the TV input to the input of this unit. 3 Press POWER ON to turn on power to the unit. The power indicator flashes green and the power turns on. The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey Auto Setup".

To perform measurement, place the setup microphone in multiple locations all around the listening area. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions). · When performing Audyssey Auto Setup, MultiEQ®/Dynamic EQ®/Dynamic Volume™ functions become active (vpage 45, 46). · To set up the speakers manually, use "Speaker Setup" (vpage 48) on the menu. NOTE · Make the room as quiet as possible.

Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds. · Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use). · Do not unplug the setup microphone from the main unit until Audyssey Auto Setup is completed. · Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made.

This will cause inaccurate readings. · Loud test sounds may be played during Audyssey Auto setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume. · Operating VOL df during the measurements will cancel the measurements.

· Measurement cannot be performed when headphones are connected. Power on Power on 6 The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers. See page 29 for the installation, connection and setup methods for speakers other than 5.1-channel speakers.

ENGLISH Set up speakers (Audyssey® Auto Setup) Simple version About setup microphone placement · Measurements are performed by placing the setup microphone successively at multiple positions throughout the entire listening area, as shown in GExample qH. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions). · Even if the listening environment is small as shown in GExample wH, measuring at multiple points throughout the listening environment results in more effective correction. GExample qH FL SW C FR 1 Set up the microphone Mount the setup microphone on a tripod or stand and place it in the main listening position. Sound receptor When placing the setup microphone, adjust the height of the sound receptor to the level of the listener's ear. Setup microphone 2 Set up the subwoofer If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below. n When using a subwoofer with a direct mode Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting. Basic version n When using a subwoofer without a direct mode Make the following settings: · Volume : "12 o'clock position" · Crossover frequency : "Maximum/Highest Frequency" · Low pass filter : "Off" · Standby mode : "Off" GExample wH FL SW C FR (: Measuring positions) (:

Measuring positions) 3 SR Set up the remote control unit n Set up the operation mode Press AMP to set the remote control unit to amplifier operation mode. Advanced version SL *M SR SL *M NOTE · Do not hold the setup microphone in your hand during measurements. · Avoid placing the setup microphone close to a seat back or wall as sound reflections may give inaccurate results.

FL Front speaker (L) FR Front speaker (R) C Center speaker SW Subwoofer SL Surround speaker (L) SR Surround speaker (R) About the main listening position (*M) The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting Audyssey Auto Setup, place the setup microphone in the main listening position. Audyssey MultEQ® uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer. Press AMP Information The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers. See page 29 for the installation, connection and setup methods for speakers other than 5.1-channel speakers. 7 ENGLISH Set up speakers (Audyssey® Auto Setup) Preparation Step 1 Speaker Detection · In step 1, you will perform measurements at the main listening position. · This step automatically checks the speaker configuration and speaker size, and calculates the channel level, distance, and crossover frequency. It also corrects distortion in the listening area.

Step 2 Measurement · In step 2, you will perform measurements at multiple positions (two to six positions) other than the main listening position. · You can achieve a more effective correction of distortion within the listening area by performing measurements at multiple positions.



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4 Connect the setup microphone to the SETUP MIC jack of this unit. 6 The detected speakers are displayed. When the setup microphone is connected, the following screen is displayed.

3-1. Audyssey Auto Setup MultEQ Please place microphone at ear height at main listening position. Pre Assign: Normal Start Cancel [ENT]:Select [RTN]:Back Step1:Speaker Detection MultEQ Front Sp. :Yes Center Sp. :Yes Subwoofer :Yes Surround Sp. :Yes S.Back(Preout) :No Next Retry [ENT]:Next NOTE If "Caution" is displayed: Go to "Error messages" (vpage 10), check any related items, and perform the necessary procedures. If the problem is resolved, return and restart "Audyssey Auto Setup". microphone to 8 Move the setup to select "Next", position 2, ui and then press ENTER. The measurement of the second position starts. Measurements can be made in up to six positions. Step2:Measurement MultEQ Please place microphone at ear height at 2nd listening position. Next Calculate Cancel [ENT]:Next When performing Audyssey Auto Setup over again Press ui to select "Retry", and then press NOTE If a connected speaker is not displayed, the speaker may not be connected correctly. Check the speaker connection. ENTER.

When measuring has stopped q Press ui to select "Cancel", then press w Press o p to select "Yes", then press ENTER. Here, we explain setup using the example of 5.1-channel speaker playback. For settings other than 5.1-channel surround, select "Pre Assign" and perform steps 3 to 4 of "Set up speakers" (vpage 31). 7 Use ui to select "Next" and then press ENTER. ENTER. Setting up the speakers again Repeat the operation from step 4 of Preparation . If you want to omit measurements from the next position onward, select "Calculate". (Go to Step 3 Calculating) 5 Use ui to select "Start" and then press ENTER. When measuring begins, a test tone is output from each speaker. 9 Repeat step 8, measuring positions 3 to 6. When measurement of position 6 is completed, a "All the measurements were finished." message is displayed. Step2:Measurement MultEQ All the measurements were finished. Calculate Retry Cancel [ENT]:Calculate · Measurement requires several minutes. If "Cancel" is selected "Cancel Auto Setup?" is displayed on the TV screen. If "Yes" is selected, "Audyssey Auto Setup" closes. 8 Remote control operation buttons Move the cursor (Up/Down/Left/Right) Confirm the setting Return to previous menu ENGLISH Set up speakers (Audyssey® Auto Setup) Simple version Step 3 Calculating Step 2 Step 4 Check Step 5 Store Finish microphone Use ui to the item you the screen, use ui 10 Onselect "Calculate", and then press 11 to check, andselect press ENTER.want 13 Use ui to select "Store" and then 14 Unplug the setupMIC jack. from the unit's SETUP then press ENTER. to ENTER. 15 Set Dynamic VolumeTM. Step4:Check Save the measurement results. Step5:Store Basic version Measuring results are analyzed, and the frequency response of each speaker in the listening room is determined. Step3:Calculating MultEQ Calculating Please wait... MultEQ Please check the results of the measured item. Speaker Config.

Check Distance Check Channel Level Check Crossover Freq.Check Next [ENT]:Select MultEQ Please select "Store" to store measurement values. Store Cancel Finish MultEQ Storing complete. Auto Setup is now finished. Turn on Dynamic Volume? Yes : No []:Select [ENT]:Exit [-----] · Subwoofers may measure a greater reported distance than the actual distance due to added electrical delay common in subwoofers. · If you want to check another item, press [ENT]:Store · Analysis takes several minutes to complete. The time required for this analysis depends on the number of speakers connected. The more connected speakers there are, the longer it takes to perform analysis. RETURN. Step5:Store Storing Please wait. .. 12 MultEQ · For details of Dynamic Volume settings, see page 46. Advanced version Use ui to select "Next" and then press ENTER. n When turning Dynamic Volume on · Use o to select "Yes", and then press ENTER.

The unit automatically enters "Evening" mode. · Use p to select "No", and then press ENTER. NOTE · If the result differs from the actual connection status, or if "Caution!" is displayed, see "Error messages" (vpage 10). Then carry out Audyssey Auto Setup again. · If the result still differs from the actual connection status after remeasurement or the error message still appears, it is possible that the speakers are not connected properly.

Turn this unit off, check the speaker connections and repeat the measurement process from the beginning. · If you change speaker positions or orientation, perform Audyssey Auto Setup again to find the optimal equalizer settings. [-----] n When turning Dynamic Volume off NOTE · Saving the results requires about 10 seconds. · If you do not want to save the measurement results, use ui to select "Cancel", then select "Yes" using o p. All the measured Audyssey Auto Setup data will be erased. After performing Audyssey Auto Setup, do not change the speaker connections or subwoofer volume. In event of a change, perform Audyssey Auto Setup again. NOTE During saving of measurement results, be sure not to turn off the power. Information Remote control operation buttons Move the cursor (Up/Down/Left/Right) Confirm the setting Return to previous menu 9 ENGLISH Error messages An error message is displayed if Audyssey® Auto Setup could not be completed due to speaker placement, the measurement environment, etc. If this happens, check the relevant items, be sure to take the necessary measures, then perform Audyssey Auto Setup over again.

Parameter Check This function enables you to check the measurement results and equalizer characteristics after Audyssey Auto Setup. NOTE Be sure to turn off the power before checking speaker connections. Examples Caution or Speaker Retry Cancel [ENT]:Retry Caution Error details MultEQ Measures FMicrophone:None :None · The connected setup microphone is broken, or a · Connect the included setup microphone to the device other than the supplied setup microphone SETUP MIC jack of this unit. is connected. · Not all speakers could be detected. · The front L speaker was not properly detected. · Check the speaker connections. Use 1 pressui to select "Parameter Check" and then ENTER. Use 2 pressui to select the item you want to check, then ENTER. 3-2. Parameter Check Speaker Config.Check Distance Chenck Channel Level Check Crossover Freq.



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Check EQ Check Restore F Ambient MultiEQ noise is too high or Level is too low. Retry Cancel · There is too much noise in the room for accurate · Either turn off any device generating noise or measurements to be made. move it away.

· Perform again when the surroundings are quieter. · Speaker or subwoofer sound is too low for · Check the speaker installation and the direction accurate measurements to be made. in which the speakers are facing. · Adjust the subwoofer's volume. [ENT]:Select [RTN]:Back Speaker Config.

Check Distance Check Channel Level Check Crossover Freq. Check Check the speaker configuration. Check the distance. Check the channel level. Check the crossover frequency. Check the equalizer. [ENT]:Retry Caution Front R :None Retry Cancel Skip]:Up/Down [· The displayed speaker could not be detected. MultiEQ · Check the connections of the displayed speaker. EQ Check · If "EQ Check" is selected in step 2, press ui to select equalizing curve ("Audyssey" or "Audyssey Flat") to be checked. Use o p to switch the display between the different speakers.

] :CH [3 Press RETURN. · The displayed is connected with the polarities · Check the polarities of the displayed speaker. reversed. · For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure the connection is correct, press ui to select "Skip", then press The confirmation screen reappears. Repeat steps 2 and 3. Caution Front L :Phase Retry Cancel Skip]:Up/Down [MultiEQ Retrieving Audyssey Auto Setup settings If you set "Restore" to "Yes", you can return to Audyssey Auto Setup measurement result (value calculated at the start by MultiEQ®) even when you have changed each setting manually. ENTER. []:CH 10 Remote control operation buttons Move the cursor (Up/Down/Left/Right) Confirm the setting Return to previous menu ENGLISH 5 Play back disc 1 the 2 Playunit.component connected to this Make the necessary settings on the player (language setting, subtitles setting, etc.

) beforehand. 1 2 3 4 5 Simple version Press BD to switch an input source for a player used for playback. When power is switched to standby Press POWER OFF. GPower indicator status in standby modeH · Normal standby : Off · When "HDMI Control" is set to "ON" : Red Basic version 3 Adjust the sound volume. You can also switch the power to standby by pressing ON/STANDBY on the main unit.

VOL d Volume up VOL f Volume down MUTE Muting NOTE 4 Set the listening mode. Set the listening mode according to the playback contents (cinema, music, etc.) or according to your liking (vpage 25 "Selecting a listening mode (Surround mode)"). During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

Advanced version Information Remote control operation buttons Move the cursor (Up/Down/Left/Right) Confirm the setting Return to previous menu 11 ENGLISH Basic version Basic version Here, we explain the connections and basic operation methods for this unit. F Connections vpage 13 F Playback (Basic operation) vpage 19 F Selecting a listening mode (Surround mode) vpage 25 n Refer to the pages indicated below for information on connecting and playing back the various media and external devices. Audio and video TV Blu-ray Disc player DVD player Set-top box (Satellite tuner or cable TV) Game console Digital camcorder Control dock for iPod Audio Radio For speaker connections, see page 4. Connection vpage 14, 16 vpage 14, 16 vpage 14, 17 vpage 14 vpage 17 vpage 18 Connection vpage 18 Playback vpage 20 vpage 20 vpage 20 Playback vpage 22 12 ENGLISH Connections Important information · Make connections as follows before using this unit. Select an appropriate connection type according to the components to be connected. · You may need to make some settings on this unit depending on the connection method. Refer to each description for more information. · Select the cables (sold separately) according to the components being connected. Simple version NOTE · 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 being connected.

· 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 noise. Basic version Converting input video signals for output (Video conversion function) This unit is equipped with four types of video input connectors (HDMI, Component video, S-Video and video) and two types of video output connectors (HDMI and video). Use the connectors corresponding to the components to be connected. This function automatically converts various formats of video signals input to this unit into the formats used to output the video signals from this unit to a monitor. · The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats. · Resolutions of HDMI-compatible TVs can be checked at "HDMI Monitor Information" (vpage 53). GFlow of video signalsH Video device This unit Monitor 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. · Component video input signals cannot be converted into Video format. Advanced version Output HDMI connector Input (IN) Output (MONITOR OUT) HDMI connector Input HDMI connector HDMI connector Component video connectors Component video connectors S-Video connector S-Video connector Information Video connector Video connector Video connector Video connector 13 ENGLISH Important information How the on-screen display appears in accordance with the video input signal The way the on-screen display of the menus, status, etc.



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