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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-2312CI. You'll find the answers to all your questions on the DENON AVR-2312CI 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-2312CI**  
**User guide DENON AVR-2312CI**  
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**DENON**

**INTEGRATED NETWORK AV RECEIVER**

**AVR-2312CI**

**Owner's Manual**

Basic version

Advanced version

Information



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**Manual abstract:**

Clean only with dry cloth. Do not block any ventilation openings. install in accordance with the manufacturer's instructions. @@ 9. @@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer. 12. 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.

13. @@@@ 15. @@@@COMPLIANCE INFORMATION Product Name: Integrated Network AV Receiver Model Number: AVR-2312CI This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation. IMPORTANT NOTICE: DO NOT MODIFY THIS

PRODUCT This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements.

Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product. 3. IMPORTANT When connecting this product to network hub or router, use only a shielded STP or ScTP LAN cable which is available at retailer. follow all installation instructions. Failure to follow instructions could void your authority, granted by the FCC, to use the product. information 4. NOTE This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna.  Increase the separation between the equipment and receiver.  Connect the product into an outlet on a circuit different from that to which the receiver is connected.  Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help. For Canadian customers: This Class B digital apparatus complies with Canadian ICES-003. The top surface over the internal heat sink may become hot when operating this product continuously.

Do not touch hot areas, especially around the "Hot surface mark" and the top panel. 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. i n NOTES ON USE 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 (STANDBY) 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. N CAUTIONS ON INSTALLATION Basic version z z z z Wall Advanced version z z z z For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.  Do not place any other equipment on this unit.

Information II Getting started Thank you for purchasing this DENON product.

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.

121 Specifying the zone used with the main remote control unit. 14 Connecting an iPod or USB memory device to the USB port. 52 Information 1 Accessories Check that the following parts are supplied with the product. 1 t y i Fully discrete, identical quality and power for all 7 channels (135 W x 7ch) The unit is equipped with a power amplifier that reproduces 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 reproduction. Easy to use, Graphical User Interface This unit is equipped with an easy to see "Graphical User Interface" that uses menu displays and levels. The use of level displays increases operability of the this unit. Direct play for iPod® and iPhone® via USB (vpage 15) Supports internet radio, music, and photograph streaming Supports AirPlay® (vpage 73) o Q0 When connected to a network, this unit can play audio files and still images such as photographs that are stored on your computer. You can also listen to internet radio and a host of other online music sources that use network technology. This unit also supports AirPlay that lets you stream your music library from an iPhone, iPad, iPod touch or iTunes.

Music data from an iPod can be played back if you connect the USB cable supplied with the iPod via the USB port of this unit, and also an iPod can be controlled with the remote control unit for this unit. When an iPod is connected, merely pressing iPod 1 on the main unit starts playback of music from the iPod. Color", Auto Lip Sync and HDMI control function (vpage 7) This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system.



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This unit also supports the ARC (Audio Return Channel) function, which reproduces TV sound with this unit via an HDMI cable used for connecting the unit and a TV. 2. The TV should support the ARC function.

Compatible with "Denon Remote App" for performing basic operations of the unit with an iPhone or iPod touch. 1 Information "Denon Remote App" is application software that allows you to perform basic operations with an iPhone or iPod touch such as turning the unit ON/OFF, controlling the volume, and switching the source. 2.1 Download "Denon Remote App" from iTunes® App Store. The unit needs to be connected to a LAN and the iPhone/iPod touch needs to be connected to the same network by Wi-Fi (wireless LAN). 7-HDMI inputs and 1-output The unit is equipped with 7 HDMI input connectors for connecting devices with HDMI connectors, such as a Blu-ray Disc player, game machine, HD video camera, etc. Setup Wizard, providing easy-to-follow setup instructions. vSee overleaf First select the language when prompted.

Then simply follow the instructions displayed on the TV screen to set up the speakers, network, etc. 2 Features Cautions on handling Basic version • Before turning the power 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. All sources are up-scaled to 1080p The unit is provided with an HDMI video up-scaling function that converts an analog video signal input to the unit to a 1080p (HD resolution) signal and supplies it to a TV via the HDMI connector. This enables the unit and a TV connected with a single HDMI cable and any video source to be reproduced precisely with HD level of quality. High definition audio support Advanced version 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. Information 3 Basic version Basic version Basic version Here, we explain the connections and basic operation methods for this unit. F Connections vpage 5 F Settings vpage 19 F Playback (Basic operation) vpage 26 F Selecting a listening mode (SURROUND MODE) vpage 52 Advanced version Information Connection Playback Connection Playback Connection Playback Connection Playback Connection Playback Connection Playback vpage 8, 10 – vpage 8, 11 vpage 28 vpage 8, 13 – vpage 14 vpage 29 vpage 15 vpage 50 vpage 14 – vpage 17 vpage 35 Connection Playback Connection Playback Connection Playback Connection Playback vpage 8, 11 vpage 28 vpage 16 vpage 28 vpage 8, 12 – vpage 15 vpage 31 vpage 8 – vpage 16 vpage 33 For speaker connections, see page 59, C page 6 "Connecting the speakers". 4 Connections Important information • Make connections as follows before using this unit. Select an appropriate connection type according to the devices 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 devices being connected. Basic, you need a TV and player that provide support for the HDMI 1. 4a 3D function and a pair of 3D glasses.

NOTE • When playing back 3D video, refer to the instructions provided in the manual of your playback device together with this manual. □ When playing back 3D video content, the menu screen or status display screen can be superimposed over the image. However, the menu screen or status display screen cannot be superimposed over certain 3D video content. □ If 3D video with no 3D information is input, the menu screen and status display on this unit are displayed over the playback video. □ If 2D video is converted to 3D video on the television, the menu screen and status display on this unit e HDMI output connector by setting the HDMI audio output destination to TV.

Audio signals input via the Analog/Coaxial/Optical input connectors cannot be output from the HDMI output connector. 9 Connecting a TV • Select the connector to use and connect the device. □ For video connections, see "Converting input video signals for output (Video conversion function)" (vpage 5). • For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (vpage 7). Basic version TV VIDEO COMPONENT VIDEO IN Y P B PR VIDEO IN AUDIO OPTICAL OUT To listen to TV audio through this device, use the optical digital connection. NOTE The optical connection is not required when a TV compatible with the ARC function (Audio Return Channel (HDMI 1. 4a standard function) is connected to this unit via an HDMI connection. For details, see "About ARC (Audio Return Channel) function" (vpage 7) or refer to the instruction manual for your TV. Advanced version Cables used for connections Video cable (sold separately) Video cable Component video cable Audio cable (sold separately) Optical cable in Set as Necessary Set this to change the digital input connector or component video input connector to which the input source is assigned. □ Input Assign" (vpage 88) Information 10 Connecting a Blu-ray Disc player/DVD player • You can enjoy video and audio from a Blu-ray Disc or DVD.

□ Select the connector to use and connect the device. • For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (vpage 7). Basic version Blu-ray Disc player AUDIO AUDIO OUT L R DVD player AUDIO AUDIO OUT L R COAXIAL OUT VIDEO COMPONENT VIDEO OUT Y P B PR VIDEO OUT Cables used for connections Video cable (sold separately) Video cable Component video cable Audio cables (sold separately) Audio cable Coaxial digital cable L R L R L R L R Advanced version L R L R Information in Set as Necessary Set this to change the digital input connector or component video input connector to which the input source is assigned.



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□ **Input Assign**” (vpage 88) When you want to play back HD Audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus, DTS Express) and Multichannel PCM with this unit, use an HDMI connection (vpage 7 “Connecting an HDMI-compatible device”). 11 Connecting a set-top box (Satellite tuner/cable TV) • You can watch satellite or cable TV. □ Select the connector to use and connect the device. • For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (vpage 7). Basic version Satellite tuner/Cable TV VIDEO COMPONENT VIDEO OUT Y P B PR VIDEO OUT AUDIO AUDIO OUT L R COAXIAL OUT Cables used for connections Video cable (sold separately) Video cable L R Component video cable L R Advanced version Audio cables (sold separately) Audio cable Coaxial digital cable L R L R Information in Set as Necessary Set this to change the digital input connector or component video input connector to which the input source is assigned. □ **Input Assign**” (vpage 88) 12 Connecting a digital video recorder • You can record video onto a Blu-ray Disc or DVD. □ Select the connector to use and connect the device.

Basic version Digital video recorder VIDEO VIDEO OUT S-VIDEO OUT AUDIO OUT L R AUDIO OPTICAL OUT VIDEO VIDEO IN AUDIO AUDIO IN L R Cables used for connections Video cable (sold separately) Video cable L R L R Advanced version S-Video cable Audio cable (sold separately) Audio cable Optical cable L R L R L R L R Information in Set as Necessary Set this to change the digital input connector or component video input connector to which the input source is assigned. □ **Input Assign**” (vpage 88) NOTE To record video signals through this unit, use the video cable for connection between this unit and the player. 13 Connecting a digital camcorder • You can enjoy video and audio from a digital camcorder. • For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (vpage 7). Connecting a control dock for iPod • Connect a control dock for iPod to the unit to enjoy video and music stored on an iPod.

□ For a control dock for iPod, use ASD-1R or ASD-11R made by DENON (sold separately). □ For instructions on the control dock for iPod settings, refer to the control dock for iPod’s operating instructions. Control dock for iPod Basic version Cables used for connections Video cable (sold separately) Video cable Audio cable (sold separately) Audio cable L R L R ASD-11R Advanced version Digital camcorder VIDEO VIDEO OUT AUDIO AUDIO OUT L R R Use the AV/Control Cable supplied with the DENON control dock for iPod. R L L R Information L R in Set as Necessary Set this to change the digital input connector or component video input connector to which the input source is assigned. □ **Input Assign**” (vpage 88) You can enjoy games by connecting a game machine via the V.

aUX input connector. In this case, select the input source to “V. aUX”. NOTE When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. In this case, use the monitor output of the same connector as the input. 14 Connecting an iPod or USB memory device to the USB port You can enjoy music stored on an iPod or USB memory device. Basic version Cables used for connections To connect an iPod to this unit, use the USB cable supplied with the iPod. USB memory device or iPod Advanced version Information • When you want to play back a video file stored on an iPod, use a DENON control dock for iPod (ASD-1R and ASD-11R, sold separately) (vpage 14 “Connecting a control dock for iPod”). □ With iPods, playback is possible with iPhone, iPod touch, classic and nano released from the 5th-generation of iPods. for details, check page 31.

□ DENON does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter. NOTE • USB memory devices will not work via a USB hub. □ Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices. □ This unit does not support playback on an iPad. Do not connect an iPad to the unit. □ When connecting an iPhone to this unit, keep the iPhone at least 20 cm away from this unit. If the iPhone is kept closer to this unit and a telephone call is received by the iPhone, noise may be output from this device. 15 Connecting an antenna • Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.

□ After connecting the antenna and receiving a broadcast signal (vpage 33 “Listening to FM/AM broadcasts”), fix the antenna with tape in a position where the noise level becomes minimal. Direction of broadcasting station AM loop antenna (supplied) FM outdoor antenna Connecting a CD player nnAM loop antenna assembly 1 Put the thestand section through bottom of the loop antenna from the rear and bend it forward. The projecting 2 Insert the square holepart into in the stand. loop antenna • You can enjoy CD sound. □ Select the connector to use and connect the device.

Stand Square hole Projecting part Basic version Cables used for connections Audio cable (sold separately) Audio cable L R L R Advanced version CD player AUDIO AUDIO OUT L R q w e 75 Ω coaxial cable L R nnUsing the AM loop antenna Suspending on a wall Suspend directly on a wall without assembling. black White L R Information FM indoor antenna (supplied) Nail, tack, etc. Standing alone Use the procedure shown above to assemble. In Set as Necessary NOTE AM outdoor antenna Ground • Do not connect two FM antennas simultaneously. □ Even if an external AM antenna is used, do not disconnect the AM loop antenna.

□ Make sure the AM loop antenna lead terminals do not touch metal parts of the panel. □ If the signal has noise interference, connect the ground terminal (GND) to reduce noise. □ If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit. Set this to change the digital input connector to which the input source is assigned. □ **Input Assign**” (vpage 88) 16 Connecting to a home network (LAN) • This unit lets you play via your home network (LAN) music files stored on a computer and music content such as that from Internet radio. You can also operate this unit from a computer using the Web control function. □ You can update by downloading the latest firmware from the DENON website. For more information, on the menu, select “Firmware Update” (vpage 115). □ See “Network Setup” on the menu (vpage 108) for more information on network setting.

Required system nnBroadband internet connection nnModem Basic version NOTE • A contract with an ISP is required to connect to the Internet.



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No additional contract is needed if you already have a broadband connection to the Internet. □ The types of routers that can be used depend on the ISP. contact an ISP or a computer shop for details. □ DENON assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices. □ This unit is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a type of line set by PPPoE. □ Do not connect an ETHERNET connector directly to the LAN port/ Ethernet connector on your computer. □ To listen to audio streaming, use a router that supports audio streaming. Device that connects to the broadband circuit and conducts communications on the Internet.

A type that is integrated with a router is also available. When using this unit, we recommend you use a router equipped with the following functions: • Built-in DHCP server This function automatically assigns IP addresses on the LAN. □ Built-in 100BASE-TX switch When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater. □ Use only a shielded STP or ScTP LAN cable which is available at retailer. □ Some flat type Ethernet cables are easily affected by noise.

We recommend using a normal type cable. NnRouter Advanced version Cables used for connections Cable (sold separately) Ethernet cable Computer Modem Internet nEthernet cable (CAT-5 or greater recommended) Information To WAN side To LAN port To LAN port/ Ethernet connector Router • If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network Setup" (vpage 108). □ With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically. □ When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings. When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc.

, at "Network Setup" (vpage 108). □ When setting manually, check the setting contents with the network administrator. For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop. 17 Connecting an external control device Basic version REMOTE CONTROL jacks If this unit is installed in a location that is out of range of the signal from the remote control unit, you can still operate the unit and the devices connected to it by using a commercially available IR receiver. You can also use it to remotely control ZONE2 (another room). Infrared retransmitter Infrared sensor RS-232C connector When you connect an external control device, you can control this unit with the external control device. External serial controller TRIGGER OUT jacks When a device with TRIGGER IN jack is connected, the connected device's power on/standby can be controlled through linked operation to this unit. the TRIGGER OUT jack outputs a maximum 12 V/150 mA electrical signal. 12 V/150 mA trigger-compatible device AUX OUT Input Output Device equipped with a REMOTE CONTROL IN jack Advanced version Information Perform the operation below beforehand. Q Turn on the power of this unit.

W Turn off the power of this unit from the external controller. E Check that the unit is in the standby mode. In Set as Necessary Set to change the conditions for linked operation via the TRIGGER OUT jack. □ Trigger Out" (vpage 114) NOTE • Use the monaural mini-plug cable for connecting TRIGGER OUT jacks. Do not use the stereo mini-plug cable. □ If the permissible trigger input level for the connected device is larger than 12 V/150 mA, or has shorted, the TRIGGER OUT jack cannot be used. In this case, turn off the power to the unit, and disconnect it. 18 Settings Here, we explain "Audyssey® Auto Setup", which allows you to automatically make the optimal settings for your speakers, and "Network Setup", which allows you to connect this unit to a home network (LAN). This unit lets you play via your home network (LAN) music files stored on a computer and music content such as that from Internet radio. Basic version Set up speakers (Audyssey® Auto Setup) 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 or more positions, as shown in the illustration (up to eight positions). • When performing Audyssey® Auto Setup, Audyssey MultEQ® XT/ Audyssey Dynamic EQ®/Audyssey Dynamic Volume® functions become active (vpage 98). □ To set up the speakers manually, use "Speaker Setup" (vpage 102) on the menu.

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 or more positions, as shown in the illustration (up to eight 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 nn Set up speakers (Audyssey® Auto Setup) (vpage 19) nn Making the network settings (Network Setup) (vpage 25) Playback (Basic operation) (vpage 26) Selecting a listening mode (SURROUND MODE) (vpage 52) Playback (Advanced operation) (vpage 68) Advanced version GExample wH FL SW C FR 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 M df during the measurements will cancel the measurements. □ Measurement cannot be performed when headphones are connected.

( : Measuring positions) ( : Measuring positions) Information SL \*M SR SL \*M SR 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.



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Before starting Audyssey® Auto Setup, place the setup microphone in the main listening position. Audyssey MultEQ® XT uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer. VSee overleaf 19 Set up speakers (Audyssey® Auto Setup) 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. 3 Basic version Set up the remote control unit nn Set up the zone mode Press ZONE SELECT to switch the zone mode to J (MAIN ZONE). the J indicator lights. Nn When using a subwoofer with a direct mode Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting. Nn When using a subwoofer without a direct mode Advanced version Make the following settings: • Volume : "12 o'clock position" • Crossover frequency : "Maximum/Highest Frequency" • Low pass filter : "Off" • Standby mode : "Off" Press ZONE SELECT nn Set up the operation mode Press AMP to set the remote control unit to AMPoperation mode.

NOTE When you use two subwoofers, please adjust the subwoofer volume controls individually so that each subwoofer level is as close as possible to 75 dB using the test tone (vpage 104) before Audyssey® Auto Setup. Information If you do not have a tripod or stand, set up the microphone on, for example, a seat without a back. 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. Press AMP vSee overleaf 20 Set up speakers (Audyssey® Auto Setup) STEP 1 STEP 2 Basic version Preparation Detection & Measurement (Main) • In STEP 2, 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. 4 Connect the setup microphone to the SETUP MIC jack of this unit. nOTE If "Caution! □ is displayed: Go to "Error messages" (vpage 24), check any related items, and perform the necessary procedures. If the problem is resolved, return and restart "Audyssey® Auto Setup".

advanced version 6 Select "Measure" and then press ENTER. When the setup microphone is connected, the following screen is displayed. AUDYSSEY AUTO SETUP STEP1 Preparation 1 2 3 4 5 6 Connect the speakers and place them according to the recommendations in the manual. When performing Audyssey® Auto Setup over again Press ui to select "Retry", and then press ENTER. 7 The detected speakers are displayed. When measuring has stopped q Press RETURN B, to the "Cancel auto setup? □ The illustration below shows an example of when the front speakers, center speaker, subwoofer, and surround speakers have been detected. AUDYSSEY AUTO SETUP STEP2 Speaker Front Center Subwoofer Surround Detection Check Yes Yes Yes Yes Information 1 2 3 4 5 6 Setting up the speakers again Repeat the operation from step 4 of STEP 1 Preparation . VSee overleaf Auto Setup Start Start Auto Setup Enter RETURN Cancel Here, we explain setup using the example of 5. 1-channel speaker playback. For settings other than 5.

1-channel surround , select "Amp Assign" and perform step 4 and 5 of "Set up "Amp Assign "" (vpage 65). If unused channels are set with "Channel Select", measuring time can be shortened. for setting , perform steps 6 to 11 of "Set up "Channel Select "" (vpage 66). Retry Next Measurement RETURN Enter Cancel Proceed to next after checking speaker connection result NOTE If a connected speaker is not displayed, the speaker may not be connected correctly. 21 Set up speakers (Audyssey® Auto Setup) STEP 3 STEP 4 Basic version Measurement (2nd – 8th) • In STEP 3, you will perform measurements at multiple positions (two to eight positions) other than the main listening position. □ Just one position can be measured but measuring multiple positions increases the accuracy of the correction of acoustic distortion within the listening area. Select "Next → then press STEP 3 Measuring results are analyzed, and the frequency response of each speaker in the listening room is determined. 9 Move the setup microphone to position 2, use ui to select "Measure", and then press ENTER. Measurements can be made in up to eight positions. AUDYSSEY AUTO SETUP STEP3 Measurement (2nd) Please place the microphone at ear height at 2nd listening position.

Enter Proceed to next (Calculation) Cancel 1 2 3 4 5 6 • 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. vSee overleaf Information Measure Next Calculation RETURN Enter Cancel Start measurement. Output large test tone during measuring If you want to omit measurements from the next position onward, select "Next Calculation".

1 2 3 4 5 6 15 Unplug the setup microphone from the unit's SETUP MIC jack. Yes No Exit Turn Dynamic Volume off and exit Auto Setup Enter RETURN Proceed to next (Store) Cancel AUDYSSEY AUTO SETUP • 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 RETURN B. 20% 1 2 3 4 5 6 • This feature adjusts the output volume to the optimal level while constantly monitoring the level of the audio input to the unit. Optimal volume control is performed automatically without any loss in the dynamism and clarity of the sound when, for example, the volume suddenly increases for commercials shown during television programs. information 13 Use i to select "Next → Store" and then press ENTER. □ Saving the results requires about 10 seconds. □ If the measuring results are not to be saved, press RETURN B. Nn When turning Dynamic Volume® on NOTE • If the result differs from the actual connection status, or if "Caution! " is displayed, see "Error messages" (vpage 24). Then carry out Audyssey® Auto Setup again. □ □ If you change speaker positions or orientation, perform Audyssey® I Auto Setup again to find the optimal equalizer settings. Nn When turning Dynamic Volume® off NOTE • Use u to select "Yes", and then press ENTER.



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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.

23 Set up speakers (Audyssey® Auto Setup) Error messages NOTE • 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. □ 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. □ Be sure to turn off the power before checking speaker connections. basic version Examples AUDYSSEY AUTO SETUP Caution! No microphone or speaker Error details • The connected setup microphone is broken, or a device other than the supplied setup microphone is connected. • Not all speakers could be detected. □ The front L speaker was not properly detected. Measures • Connect the included setup microphone to the SETUP MIC jack of this unit. Ambient noise is too high or level is too low • There is too much noise in the room for accurate measurements to be made.

□ Speaker or subwoofer sound is too low for accurate measurements to be made. □ Either turn off any device generating noise or move it away. □ Perform again when the surroundings are quieter. □ Check the speaker installation and the direction in which the speakers are facing. Front R None 1 2 3 4 5 6 • The displayed speaker could not be detected.

(The screen on the left indicates that the front right speaker cannot be detected.) • Check the connections of the displayed speaker. retry Cancel RETURN AUDYSSEY AUTO SETUP Caution! Front R Phase 1 2 3 4 5 6 • The displayed speaker is connected with the polarity reversed. (The screen on the left indicates that the polarity phases of the front right speakers are reversed.) • Check the polarity of the displayed speaker.

□ 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 ENTER. Retry Skip RETURN Cancel 24 Set up speakers (Audyssey® Auto Setup) Parameter Check This function enables you to check the measurement results and equalizer characteristics after Audyssey® Auto Setup. Making the network settings (Network Setup) This unit can be connected to a home network (LAN) to listen to Internet radio or play back music files and still image (JPEG) files stored on a computer. Bass Setting Distance Channel Level Audyssey Auto Setup Parameter Check 1 Connect the Ethernet cable (vpage 17 "Connecting to a home network (LAN)"). 2 Turn on this unit (C page 5 "Getting Started"). This unit performs automatic network setup due to the DHCP function. When connecting to a network that has no DHCP function, perform the setting in "Network Connecting" (vpage 108). Advanced version Check auto setup measurement results 2 Use ui to select the item you want to check, then press ENTER or p. Measurement results for each speaker are displayed.

Use ui to switch the display between the different speakers. 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 MultEQ® XT) even when you have changed each setting manually. 25 Playback (Basic operation) Settings (vpage 19) nn Selecting the input source (vpage 26) nn Adjusting the master volume (vpage 27) nn Turning off the sound temporarily (vpage 27) nn Playing a Blu-ray Disc player/DVD player (vpage 28) nn Playing a CD player (vpage 28) nn Playing an iPod (vpage 29) nn Tuning in radio stations (vpage 33) nn Playing a network audio (vpage 35) nn Playing a USB memory device (vpage 50) Selecting a listening mode (SURROUND MODE) (vpage 52) Playback (Advanced operation) (vpage 68) Basic version Important information Before starting playback, make the connections between the different devices and the settings on the unit. You can also use the following operation to select an input source. NOTE Also refer to the operating instructions of the connected devices when playing them. NnUsing the knob on the main unit Selecting the input source Press the input source select button (BD, SAT/CBL, TV, NET/USB, DVD, V. AUX DVD GAME2 TV SAT/CBL GAME1 DVR Advanced version • When iPod 1 on the main unit is pressed, the input source of this unit is switched to "DOCK" or "NET/USB" and the connected iPod is automatically played (vpage 32 "iPod play function"). vSee overleaf The desired input source can be selected directly. Information BD 26 Important information nnUsing the "SOURCE SELECT" menu Switch the remote control unit to the J (MAIN ZONE) mode when performing this operation (vpage 118 "Operating AV devices"). If the remote control unit is in K (ZONE2) mode, the "SOURCE SELECT" menu will not be displayed when SOURCE SELECT is pressed.

SOURCE SELECT Adjusting the master volume • When using with an iPod connected directly to the USB port of this unit, select "(USB/iPod)" for the input source. □ Input sources that are not going to be used can be set ahead of time. make this setting at "Source Delete" (vpage 113). □ To turn off the source selection menu without selecting an input source, press SOURCE SELECT again. □ When SOURCE SELECT is pressed, the AMP-operation mode starts automatically (vpage 118).

0 • The variable range differs according to the input signal and channel level setting. Advanced version e Video Network Tuner You can also operate via the main unit. In this case, perform the following operations. Turn MASTER VOLUME to adjust the volume. q Input Source The name of the highlighted input source is displayed.

W Recently used sources The recently used input sources (up to five) are displayed. E Icons for the input sources in the different categories are displayed. Turning off the sound temporarily Press N. W Use ui to select the input source, then press ENTER. The input source is set and the source selection menu is turned off. □ The sound is reduced to the level set at "Mute Level" (vpage 113). • To cancel, press N again. Muting can also be canceled by adjusting the master volume. display the "SOURCE SELECT" menu. BD 27 Playing a Blu-ray Disc player/DVD player The following describes the procedure for playing Blu-ray Disc player/ DVD player.



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Playing a CD player The following describes the procedure for playing CD player. Q Turn on the power of the subwoofer w Load the disc in the player. Q Turn on the power of the TV, w Change the TV input to the input of this unit. E Load the disc in the player. press 2 unit. ON to turn on power to the DVD to switch 3 Press BD or for playback. An input source for a player used 4 Play the device connected to this unit. Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand. 2 Press ON to turn on power to the unit.

press switch 3 source CD the CD player. The input to 4 Play the device connected to this unit. Advanced version Information BD 28 Playing an iPod There are two methods for iPod playback. Basic version q Use a DENON control dock for iPod to play back. You can play back both video, photo and audio.

W Connect an iPod directly to the USB port to play back (vpage 31). You can play back audio only. • In "Browse mode", the iPod display is as shown at right. NOTE If the connections screen is not displayed, the iPod may not be properly connected. Q Use a DENON control dock for iPod to play back Press SEARCH and hold it down 4 more to select the display mode.

For 2 seconds or • There are two modes for displaying the contents recorded on the iPod. browse mode Display iPod information on the TV screen. □ English letters, numbers and certain symbols are displayed. □ "Remote iPod" is displayed on the display of this unit. Display mode Music file Playable Photo file files Video file Active buttons Remote control unit (This unit) iPod Browse mode P Pz1 P Remote mode P P z2 P z2 P P • You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "iPod" (vpage 114). Press uio p to return to the original screen. □ To play back compressed audio with extended bass or treble reproduction, we recommend playback in RESTORER mode (vpage 99). the default setting is "Mode3". □ In Browse mode, press STATUS on the main unit during playback to check the title name, artist name, and album name on the display of this unit. Advanced version If you use a separately sold DENON control dock for iPod (ASD-1R or ASD-11R), you will be able to play back videos, photos, music, and other content on the iPod.

NOTE • Press STANDBY and set this unit's power to the standby mode before disconnecting the iPod. You can also switch the input source to other than "DOCK" and then disconnect the iPod. □ Depending on the type of iPod and the software version, some functions may not operate. □ Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod. NnListening to music on an iPod 1 Prepare for playback. Q Connect the DENON control dock for iPod to this unit (vpage 14 "Connecting a control dock for iPod"). W Set the iPod in the DENON control dock for iPod. information vSee overleaf Press 2 unit. ON to turn on power to the Press 3 source DOCK to switch the input to "DOCK".

□ If "Browse mode" is selected in step 4, the following screen is displayed on a TV screen, depending on the connected control dock for iPod.

(When using an ASD-1R) (When using an ASD-11R) Music Playlists Artists Songs Albums Genres [1/6] z1 When using an ASD-11R DENON control dock for iPod. Z2 Video may not be output, depending on the combination of ASD-1R or ASD-11R DENON control dock for iPod and iPod. iPod Music [1/2] Videos ui to the item, 5 Use select the select be played. Composers BD 29 Playing an iPod nnViewing videos on an iPod in the Browse mode When an iPod equipped with a video function is connected to a DENON ASD-11R control dock for iPod, image files can be played in the Browse mode. NnViewing photos and videos on an iPod in the Remote mode nniPod operation Operation buttons MENU uio p ENTER (Press and release) ENTER (Press and hold) SEARCH (Press and release) SEARCH (Press and hold) RETURN B 6 7 (Press and hold) 1 8 9 3 2 TV Z / X TV INPUT Function Amp menu Cursor operation / Auto search (cue, ui) / Manual search (Press and hold, ui) Enter / Pause Stop Basic version 1 Use ui select the 2 or folder, to then press search item ENTER or Use ui to select "Videos", then press ENTER or p.

This unit can play back on a TV screen photos and data stored on an iPod equipped with a slide show or video function. 1 2 Press and hold SEARCH to set the Remote mode. Watching the iPod's screen, use ui to select "Photos" or "Videos". □ Remote iPod" is displayed on the display of this unit. p.

Advanced version 3 Use ui to select the video file, then press ENTER, p or 1. playback starts. Page search mode z Browse / Remote mode switching Return Manual search (fast-reverse/fast-forward) Playback / Pause Auto search (cue) Pause Stop TV power on/standby (Default : SONY) Switch TV input (Default : SONY) • Depending on the iPod model, it may be necessary to operate the iPod unit directly. 3 Press ENTER until the image you want to view is displayed. □ TV Out" at the iPod's "Slide show Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions. Information NOTE Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod. □ Repeat playback (vpage 92 "Repeat") • Shuffling playback (vpage 92 "Shuffle") zz When the menu screen is displayed, press SEARCH, then press o (previous page) or p (next page). to cancel, press ui or SEARCH. BD 30 Playing an iPod w Connect an iPod directly to the USB port to play back Press SEARCH and hold it down 5 more to select the display mode.

For 2 seconds or • There are two modes for displaying the contents recorded on the iPod. browse mode Display iPod information on the TV screen. □ English letters, numbers and certain symbols are displayed. □ "Remote iPod" is displayed on the display of this unit. □ The Remote mode is not supported on fifth generation iPod or first generation iPod nano. Display mode Playable Music file files Video file Active buttons Remote control unit (This unit) iPod zz Only the sound is played. Browse mode P Remote mode P z P P Basic version You can use the USB cable provided with the iPod to connect the iPod with the unit's USB port and enjoy music stored on the iPod. □ This unit supports audio playback from the iPod (fifth generation or later), iPod nano, iPod classic, iPod touch and iPhone (it is not compatible with iPod shuffle). 1 Connect the iPod to the USB port (vpage 15 "Connecting an iPod or USB memory device to the USB port"). □ You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "iPod" (vpage 114).



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Press **uio p** to return to the original screen. □ To play back compressed audio with extended bass or treble reproduction, we recommend playback in RESTORER mode (vpage 99). the default setting is "Mode3". □ In Browse mode, press STATUS on the main unit during playback to check the title name, artist name, and album name. NOTE • Depending on the type of iPod and the software version, some functions may not operate.

□ Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod. VSee overleaf Advanced version 2 Press ON to turn on power to the unit. □iPod", then press ENTER or p iPod Playlists Artists Albums Songs [1/8] Podcasts Genres Composers P/Search Use **ui** to select the item, **6** to select the file to be played. SEARCH NOTE If the "iPod" is not displayed, the iPod may not be properly connected. reconnect it.

BD 31 Playing an iPod nniPod operation Operation buttons MENU **uio p** ENTER (Press and release) ENTER (Press and hold) SEARCH (Press and release) SEARCH (Press and hold) RETURN **B 6 7** (Press and hold) **1 8 9 3 2** TV Z / X TV INPUT Function Amp menu Cursor operation / Auto search (cue, **ui**) / Manual search (Press and hold, **ui**) Enter / Pause Stop Page searchz1 / Character sortz2 Browse / Remote mode switching Return Manual search (fast-reverse/fast-forward) Playback / Pause Auto search (cue) Pause Stop TV power on/standby (Default : SONY) Switch TV input (Default : SONY) iPod play function If iPod 1 on the main unit is pressed when a control dock for iPod or an iPod (USB) is connected, the iPod starts playback. Advanced version NOTE If both a control dock for iPod ("DOCK") and an iPod ("NET/USB") are connected, playback with control dock for iPod ("DOCK") takes priority. Information • Repeat playback (vpage 92 "Repeat") • Random playback (vpage 92 "Shuffle") z1 When the menu screen is displayed, press SEARCH, then press **o** (previous page) or **p** (next page). to cancel , press **ui** or SEARCH twice. z2 When the menu screen is displayed, press SEARCH twice, then press **o p** to select the first letter you want to search mode. □ If it is not possible to search the list, "unsorted list. If □ the list is not in alphabetical order, you may not be able to perform a character sort. Your favorite broadcast stations can be preset so that you can tune them in easily. If "Auto Preset" is performed after performing "Manual preset", the "Manual preset" settings will be overwritten. 1 Tune in the broadcast station you want to preset.

90MHz Tuning CH+/- Preset Band MEMORY Memory Mode SEARCH Tuning CH+/- Search Preset Band MEMORY Memory Mode SEARCH Specify a name for the preset broadcast station (Preset Name) (vpage 93) vSee overleaf Search 3 Tune in the desired broadcast station. Q To tune in automatically (Auto tuning) Press MODE to light the "AUTO" indicator on the display, then use TUNING **d** or TUNING **f** to select the station you want to hear. W To tune in manually (Manual tuning) Press MODE to turn off the display's "AUTO" indicator, then use TUNING **d** or TUNING **f** to select the station you want to hear. 90MHz CH+/Song Title MEMORY To store preset: G8 Now Playing Tuning CH+/- Preset Band MEMORY Memory Mode SEARCH Search • If the desired station cannot be tuned in with auto tuning, tune it in manually. • When tuning in stations manually , press and hold TUNING **d** or TUNING **f** to change frequencies continuously. □ The time (default : 30 sec) for which the menu are displayed can be set at menu "Tuner" (vpage 114). Press **uio p** to return to the original screen. Select the block which the 3 Press SHIFT to per a block) is to(A to G) in then press channel (1 to 8 be preset, CH +, CH – or 1 – 8 to select the preset number. 4 Press MEMORY again to complete the setting. □ To preset other stations, repeat steps 1 to 4.

bD 33 Tuning in radio stations nnListening to preset stations Press to 1 block SHIFTG). Select the memory (A to TUNER A8 A7 CH A A6 A4 A3 A1 Tuning CH+/- nnDirect frequency tuning You can enter the receiving frequency directly to tune in. NnTuner (FM/AM) operation Operation buttons CH +, – MENU **uio p** ENTER SEARCH RETURN **B BAND MODE TUNING df 0–9** SHIFT MEMORY TV Z / X TV INPUT Function Preset channel selection Amp menu Cursor operation Enter Direct frequency tuning Return FM/AM switching Switch search modes Tuning (up/down) Preset channel selection (1 – 8) / Direct frequency tuning (0 – 9) Preset channel block selection Preset memory registration TV power on/standby (Default : SONY) Switch TV input (Default : SONY) Basic version 1 Press SEARCH. 50MHz Band Memory SEARCH Preset Mode MEMORY Search CH+/- Tuning Preset MEMORY Band 0-9 SEARCH 2 Press CH +, CH – or 1 – 8 to select the desired preset 2 Input frequencies using the 0 – 9. channel.

You can also operate via the main unit. In this case, perform the following operations. Information BD 34 Playing a network audio Follow this procedure to play Internet radio stations or music or still picture (JPEG) files stored on a computer. Slide show function You can play back image (JPEG) files that are stored in folders on a media server and photographs on Flickr as a slideshow. Also, you can set the time display that is shown during playback (vpage 92). Basic version Important information nnAbout the internet radio function • Internet radio refers to radio broadcasts distributed over the Internet. Internet radio stations from around the world can be received. □ This unit is equipped with the following Internet radio functions: • Stations can be selected by genre and location. □ Your favorite radio stations can be registered by accessing an exclusive DENON Internet radio URL from a Web browser on a computer. □ The function is managed for individual users, so you must provide your MAC or e-mail address. Com • The radio station database service may be suspended without notice. • This unit's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for this unit. This function lets you play music files and playlists (m3u, wpl) stored on a computer (media server) connected to this unit via a network. With this unit's network audio playback function, connection to the server is possible using one of the technologies below.

□ Windows Media Player Network Sharing Service • Windows Media DRM10 This unit plays back image (JPEG) files in the orientation in which they are stored in the folder. Nn Function that simultaneously plays back music and image files from the network You can playback music and image files at the same time by playing back music files, and then playing back image files.



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Also, when selecting music files after playing back image files, press SEARCH when the music playback screen is displayed. Music files and image files can be played back simultaneously. At this time, set "Slide Show" (page 92) in the menu to "ON". Internet Radio Advanced version Now Playing nMedia player 04:01 100% Title Radio station □ MP3 32kbps Select CH+/- Information Preset MEMORY Memory SEARCH Picture View Network contents that can be played back simultaneously are as follows. □ Music files: □ avorites, Internet Radio, Media server, USB, iPod Browse Mode (NET/USB) F • Image files: Media server, USB, Flickr vSee overleaf Album art function When a WMA (Windows Media Audio), MP3 or MPEG-4 AAC file includes album art data, the album art can be displayed while the music files are playing. if you use Ver. 11 or later of Windows Media Player, the album art for WMA files can be displayed. bD 35 Playing a network audio GCompatible formatsH Internet radio WMA (Windows Media Audio) MP3 (MPEG-1 Audio Layer-3) WAV MPEG-4 AAC FLAC (Free Lossless Audio Codec) JPEG P P Media server z1 P P P Pz2 P P nAbout Flickr Basic version Flickr is an online photograph sharing service that started in 2004.

You can use the this unit to view photographs that have been made public by Flickr users. You do not need an account to use Flickr. To view photographs that you recorded yourself, you need an account in order to upload these photographs to the Flickr server. For details, see the Flickr homepage. This service allows users to download and play pieces of music they want to hear on this unit.

Before you can use Napster, you will need to visit the Napster website on your PC to create an account and register as a member. For details, access the following site: <http://www.html.com/denon> Pandora is an automated music recommendation and Internet radio service created by the Music Genome Project. When you first listen to Pandora, it is necessary to subscribe to a Pandora account at the Pandora homepage by your PC and register this machine. See the Pandora homepage for details.

When you first listen to Rhapsody, it is necessary to subscribe to a Rhapsody account at the Rhapsody homepage by your PC and register this machine. See the Rhapsody homepage for details. Com/denon nAbout Napster A server or server software compatible with distribution in the corresponding formats is required to play music files via a network. Z1 Media server • This unit is compatible with MP3 ID3-Tag (Ver. 2) standard. □ This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. □ This unit is compatible with WMA META tags. □ WAV format Quantization bit rate: 16 bits • FLAC format Quantization bit rate: 16 or 24 bits z2 Only files that are not protected by copyright can be played on this unit. Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc.

On a computer may be copyright protected, depending on the computer's settings. Flac Advanced version nAbout Pandora nAbout Rhapsody Information BD 36 Playing a network audio Listening to internet radio nPlaying the last played Internet radio station • There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely. Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted. Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted. □ "Server Full" or "Connection Down" is displayed if the station is busy or not broadcasting. □ On this unit, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with ". " (period). □ To play back compressed audio with extended bass or treble reproduction, we recommend playback in RESTORER mode (page 99). the default setting is "Mode3".

□ You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (page 114). Press uio p to return to the original screen. □ When STATUS on the main unit is pressed, the display can be switched between the title name and radio station name. basic version 1 Prepare for playback. Q Check the network environment, then turn on this unit's power (page 17 "Connecting to a home network (LAN)"). W If settings are required, make the "Network Connecting" (page 108). Simply press INTERNET RADIO V on the main unit to switch the input source to "Internet Radio" and play the last played radio station. press INTERNET RADIO V. The source switches to "Internet Radio" and the last played radio station plays. nET/USB to switch 2 Press source to "NET/USB".

The input Press 3 Radio",ui to select "Internet then press ENTER or p. □ Selecting in the "SOURCE SELECT" menu, lets you directly select "Internet Radio". Advanced version • If INTERNET RADIO V on the main unit is pressed, the same function as with the remote control unit can be obtained. □ When INTERNET RADIO V is pressed, the AMP-operation mode starts automatically (page 118). Press ui to the 4 want to play, select pressitem you then ENTER or p. NnRecently played internet radio stations Recently played internet radio stations can be selected from "Recently Played". up to 20 stations stored in "Recently Played". Information 5 Repeat step 4 until the station list is displayed. 6 Press ui to select the station, then press ENTER or p. Ui to the 2 Press to play, select pressitem you want then ENTER or p.

This unit automatically connects to the Internet and playback begins. basic version to 1 Press uip. Select "Search by Keyword", then press 1 ENTER or ui to 2 Presspress ENTERselect then . { l m y z @ \ } OK Cancel 00:14 100% Internet Radio While the Internet radio station you want to preset is playing, press MEMORY. □Preset", Advanced version a/A Select a/A SPACE INSERT DELETE Input 10Key RETURN Favorites Preset Now Playing SHIFT SEARCH 2 Input the characters, then press OK. □ For character input, see page 85. CH+/- Preset Select MEMORY Registering Internet radio stations to PRESET CHANNEL buttons • Up to three Internet radio stations can be registered to the PRESET 1 - 3 buttons on the remote control unit or main unit. □ Recommended Internet radio stations have already been registered to the PRESET 1 - 3 buttons. memory CH + 3 Press orSHIFTS, tothen press desired, CH - 1 - select the preset number. Internet Radio Information While the internet radio station you want to preset is playing, press and hold PRESET 1 - 3 for at least 3 seconds.



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