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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO HT-S9405THX. You'll find the answers to all your questions on the ONKYO HT-S9405THX in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ONKYO HT-S9405THX
User guide ONKYO HT-S9405THX
Operating instructions ONKYO HT-S9405THX
Instructions for use ONKYO HT-S9405THX
Instruction manual ONKYO HT-S9405THX

ONKYO®

English | Français

AV Receiver

HT-R990

Instruction Manual
Thank you for purchasing an Onkyo AV Receiver. Please read this manual thoroughly before making connections and plugging in the unit.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new AV Receiver.
Please retain this manual for future reference.

Manuel d'instructions
Merci d'avoir porté votre choix sur le ampli-tuner Audio-Video de Onkyo. Veuillez lire attentivement ce manuel avant de connecter l'appareil et de le mettre sous tension. Observez les instructions données dans ce manuel afin de pouvoir profiter pleinement de votre nouveau ampli-tuner Audio-Video.
Conservez ce manuel afin de pouvoir le consulter ultérieurement.

Made for iPod iPhone | HD Radio READY | En | Fr

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Manual abstract:

@@@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. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. 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.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, PORTABLE CART WARNING 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 S3125A avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time.

refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Damage Requiring Service Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions: A. when the power-supply cord or plug is damaged, B.

If liquid has been spilled, or objects have fallen into the apparatus, C. If the apparatus has been exposed to rain or water, D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation, E. If the apparatus has been dropped or damaged in any way, and F. When the apparatus exhibits a distinct change in performance this indicates a need for service.

16. Object and Liquid Entry Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.

17. Batteries Always consider the environmental issues and follow local regulations when disposing of batteries. 18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation. Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape. Recording Copyright—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder. 2.

AC Fuse—The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer.

3. Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e. The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times. Pressing the [ON/STANDBY] button to select Standby mode does not fully disconnect from the mains. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

Preventing Hearing Loss Caution Excessive sound pressure from earphones and headphones can cause hearing loss. Batteries and Heat Exposure Warning Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like. Never Touch this Unit with Wet

Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer. Handling Notes • If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it. □ Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case. □ This unit's top and rear panels may get warm after prolonged use. this is normal. □ If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally. Models FCC Information for User CAUTION: The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment 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 equipment into an outlet on a circuit different from that to which the receiver is connected. □ Consult the dealer or an experienced radio/TV technician for help. For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. En 3 For British models Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

8. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.



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In catalogs and on packaging, the letter at the end of the product name indicates the color. specifications and operations are the same regardless of color. □ Installing the batteries Note • If the remote controller doesn't work reliably, try replacing the batteries.

□ Don't mix new and old batteries or different types of batteries. Batteries (AA/R6) • If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion. □ Remove expired batteries as soon as possible to prevent damage from leakage or corrosion.

IMPORTANT The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must be approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug.

Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug. Fit a suitable fuse in the plug. For European Models Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3. GROEBENZELL, GERMANY K. MIYAGI □ Aiming the remote controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. 22 Selecting the Language for the Onscreen Setup Menus. 85 To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press 80N/STANDBY (□ page 67). (High Current Power Supply) Massive High Power Transformer • Jitter Cleaning Circuit Technology Miscellaneous • 40 AM/FM Presets • Audyssey 2EQ®*6 to correct room acoustic problems • Audyssey Dynamic EQ®*6 for loudness correction • Audyssey Dynamic Volume®*6 to maintain optimal listening level and dynamic range • A/V Sync Control Function (up to 800 ms) • Auto Standby Function • On-Screen Display via HDMI • Preprogrammed u-Compatible Remote Processing • THX®*1 Integrated System Certified • THX Surround EX®*1, THX I/S®*1 Cinema, THX Music Mode • Incorporates Qdeo™*2 technology for HDMI Video Upscaling (to 4K Compatible) • HDMI (Audio Return Channel, 3D, DeepColor, x. v.

Color*3, Lip Sync, DTS-HD Master Audio*4, DTS-HD High Resolution Audio, Dolby TrueHD*5, Dolby Digital Plus, DSD and Multi-CH PCM) • Dolby TrueHD*5 and DTS-HD Master Audio*4 • Dolby Pro Logic IIz*5 • Non-Scaling Configuration • A-Form Listening Mode Memory • Direct Mode • Music Optimizer*7 for Compressed Digital Music files • 192 kHz/24-bit D/A Converters • Powerful and Highly Accurate 32-bit Processing DSP Connections • 4 HDMI*8 Inputs and 1 Output • Onkyo p for System Control • 4 Digital Inputs (2 Optical/2 Coaxial) • Component Video Switching (2 Inputs/1 Output) • Universal Port for the Dock for iPod®/iPhone®*9/ HD Radio™*10 tuner module (North American models)/DAB+ tuner module (European models) • Banana Plug-Compatible Speaker Posts*11 • Powered Zone 2 • Analog RGB Video Input (D-sub 15) for PC • Internet Radio Connectivity (SiriusXM Internet Radio/Tuner/Last. Fm/Pandora/Rhapsody/Slacker/ Mediafly/Napster) * Services available may vary depending on the region. □ Network Capability for Streaming Audio Files*12 • Front-Panel USB Input for Memory Devices and iPod®/iPhone®*9 models (Enables Display of Album Artwork) En 6 *1 *9 THX and the THX logo are trademarks of THX Ltd. Which are registered in some jurisdictions. , provides home theater enthusiasts the perfect blend of performance and ease of use. All of the components in this THX Certified System are engineered to work seamlessly together to deliver exceptional entertainment experiences. Whether you are watching a movie, listening to music, or playing the hottest new video game, the HT-R990 will transform your room into the ultimate entertainment environment. □ Made for iPod™ and "Made for iPhone™" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

*10 Qdeo and QuietVideo are trademarks of Marvell or its affiliates. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. *5 HD Radio™, HD Radio Ready™, and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation. This HD Radio Ready™ receiver is ready to re AV Receiver Connecting Your Speakers Connecting the Speaker Cables The following illustration shows which speaker should be connected to each pair of terminals. If you're using only one surround back speaker, connect it to the SURROUND BACK or FRONT HIGH L terminals.

Surround right Surround left Center Surround back/ Front high right Tip Surround back/ Front high left Front right Front left • You can specify whether surround back or front high speakers are connected in the "Speaker Configuration" menu (□ page 44) or during Audyssey 2EQ® Room Correction and Speaker Setup (□ page 30). □ The speakers you can connect will differ depending on the speaker system that you have. □ Screw-type speaker terminals Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.) 1/2" to 5/8" (12 to 15 mm) □ Banana Plugs (North American models) • If you are using banana plugs, tighten the speaker terminal before inserting the banana plug.

□ Do not insert the speaker code directly into the center hole of the speaker terminal. □ Push-type speaker terminals Strip 3/8" to 1/2" (10 to 12 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.) 3/8" to 1/2" (10 to 12 mm) En 12 Speaker Configuration The following table indicates the channels you should use depending on the number of speakers that you have. No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass. To get the best from your surround sound system, you need to set the speaker settings automatically (□ page 30) or manually (□ page 43). Number of channels Front speakers Center speaker Surround speakers Surround back speaker*1*2 Surround back speakers*2 Front high speakers*2 *1 *2 Speaker Connection Precautions Read the following before connecting your speakers: • You can connect speakers with an impedance of between 6 and 16 ohms.



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If your TV is connected to other video outputs, use the AV receiver's display when changing settings. A B C D E F G H I Connect your components to the appropriate jacks. The default input assignments are shown below. See "Connection Tips and Video Signal Path" for more information (□ page 79). □: Assignment can be changed (□ page 43). no. A B C D Jack/Port AUX INPUT AUDIO L/R VIDEO USB, AUX INPUT VIDEO*1 USB*2 DIGITAL IN OPTICAL COAXIAL E COMPONENT VIDEO ETHERNET MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN TV/CD IN H I Note *1 *2 *3 Components Camcorder, etc iPod/iPhone (video playback) iPod/iPhone, MP3 player, USB flash drive 1 (GAME) 2 (TV/CD) 1 (BD/DVD) 2 (CBL/SAT) IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT Game console TV, CD player Blu-ray Disc/DVD player Satellite/cable set-top box, RI dock, etc.

Blu-ray Disc/DVD player, RI dock Satellite/cable set-top box, RI dock, etc. Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder, RI dock Satellite/cable set-top box, etc. Game console, RI dock TV, CD player, cassette tape deck, MD, CD-R, Turntable*3, RI dock Personal computer Universal port option dock (UP-A1 etc.) Assignable □ □ □ □ □ F G PC IN*4 UNIVERSAL PORT □ When USB input is selected, you can input video signals from the AUX INPUT VIDEO jack. Video signals input from AUX INPUT VIDEO will be output from the MONITOR OUT V jack. Do not connect the AV receiver's USB port to a USB port on your computer. Music on your computer cannot be played through the AV receiver in this way. connect a turntable (MM) that has a phono preamp built-in. If your turntable (MM) doesn't have it, you'll need a commercially available phono preamp. If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer as well as a phono preamp.

See your turntable's manual for details. En 17 *4 When you connect your personal computer to PC IN and select the corresponding input selector, the video of the personal computer is output from the HDMI outputs. However, if you have assigned the HDMI inputs to the same input selector, the AV receiver will output signals received from the HDMI inputs instead of signals from PC IN. To have the signals output from PC IN, select "- - - -" for the corresponding input selector in the "HDMI Input" setting (□ page 42). □ With connection D, you can enjoy Dolby Digital and DTS.

(To record or listen the audio in Zone 2 as well, use D and G.) • With connection G, you can listen to and record audio from external components while you are in Zone 2. □ With connection G, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect to the main stereo. □ How to record a video source With the connections described above, you cannot record the videos through the AV receiver. See "Recording" about connections for video recording (□ page 40).

En 18 Connecting Onkyo u Components 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection G in the hookup examples) (□ page 17). Make the u connection (see the illustration). If you're using an RI Dock, or cassette tape deck, change the Input Display (□ page 40).

With u (Remote Interactive), you can use the following special functions: □ System On/Auto Power On When you start playback on a component connected via u while the AV receiver is on Standby, the AV receiver will automatically turn on and select that component as the input source. □ Direct Change When playback is started on a component connected via u, the AV receiver automatically selects that component as the input source. □ Remote Control You can use the AV receiver's remote controller to control your other u-capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first (□ page 65). , CD player R L ANALOG AUDIO OUT RI Dock R L ANALOG AUDIO OUT Note • Use only u cables for u connections. U cables are supplied with Onkyo components. • Some components have two u jacks.

You can connect either one to the AV receiver. The other jack is for connecting additional u-capable components. • Connect only Onkyo components to u jacks. Connecting other manufacturer's components may cause a malfunction. • Some components may not support all u functions. Refer to the manuals supplied with your Onkyo components. □ While Zone 2 is on, the System On/Auto Power On and Direct Change u functions do not work. connecting a Recording Component See "Recording" for details on recording (□ page 40). Note • The AV receiver must be turned on for recording. Recording is not possible while it's in standby mode.

□ If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details. □ Video signals connected to composite video inputs can be recorded only via composite video outputs. For example, if your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output. □ The surround sound and DSP listening modes cannot be recorded.

Only analog inputs can be recorded. En 19 Connecting the Antennas This section explains how to connect the supplied indoor FM antenna and AM loop antenna. The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. Insert the plug fully into the jack. Insert the plug fully into the jack.

Assembling the AM loop antenna Caution • Be careful not to injure yourself when using thumbtacks. thumbtacks , etc. AM loop antenna (supplied) Note Indoor FM antenna (supplied) • Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception. □ Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords. Tip • If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. □ If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna. Connecting the Power Cord 1 Plug the power cord into an AC wall outlet. Note • Before connecting the power cord, connect all of your speakers and AV components. □ Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the AV receiver into a different branch circuit.

En 20 Turning On & Basic Operations Turning On/Off the AV Receiver 8ON/STANDBY 8RECEIVER RECEIVER Turning On 1 Press 8ON/STANDBY on the front panel.



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Or Press RECEIVER followed by 8RECEIVER on the remote controller. The AV receiver comes on, the display lights. Turning Off 1 Press 8ON/STANDBY on the front panel. Or Press RECEIVER followed by 8RECEIVER on the remote controller. The AV receiver will enter standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off. Tip • For details on power management settings, see “Auto Standby” (□ page 55). En 21 Playback The on-screen menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to other video outputs, use the AV receiver’s display when changing settings.

This section describes the procedure for using the remote controller unless otherwise specified. Controlling Contents of USB or Network Devices See “Controlling Other Components” about the operation of other components (□ page 64). press USB or NET first. Selecting the Language for the Onscreen Setup Menus You can determine the language used for the onscreen setup menus. See “Language” in the “OSD Setup” (□ page 54).

H i a b c d e f g j k l m n o p q Playing the Connected Component □ Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR. start playback on the source component. See also: • “Playing an iPod/iPhone via USB” (□ page 23) • “Playing a USB Device” (□ page 24) • “Listening to Internet Radio” (□ page 24) • “Playing Music Files on a Server” (□ page 26) • “Remote Playback” (□ page 26) • “Listening to AM/FM Radio” (□ page 27) • “iPod/iPhone Playback via Onkyo Dock” (□ page 61) • “Controlling Other Components” (□ page 64) To adjust the volume, use VOL q/w. select a listening mode and enjoy! See also: • “Using the Listening Modes” (□ page 33) • “Audyssey” (□ page 48) a TOP MENU This button displays the top menu for each media or service. D 7 This button selects the beginning of the current song.

Pressing this button twice selects the previous song. G SEARCH You can toggle between the playback screen and the list screen during playback. □ Operating on the AV receiver 1 2 3 4 Use the input selector buttons to select the input source. start playback on the source component. To adjust the volume, use the MASTER VOLUME control. O MODE You can switch between Standard Mode and Extended Mode during iPod/iPhone playback. p RANDOM This button performs random playback. Q REPEAT Press this button repeatedly to cycle through the repeat modes. Note • The buttons you can use will differ depending on the devices and media used for playback. Playing an iPod/iPhone via USB This section explains how to play music/video files on the iPod/iPhone.

Compatible iPod/iPhone models Made for: iPod touch (1st, 2nd, 3rd and 4th generation), iPod classic, iPod with video, iPod nano (1st, 2nd, 3rd, 4th, 5th and 6th generation), iPhone 4, iPhone 3GS, iPhone 3G, iPhone 1 2 Press USB to select the “USB” input. Connect the USB cable that comes with the iPod/iPhone to the USB port on the front of the AV receiver. While reading the contents of your iPod/iPhone, the message “Connecting. It will flash if the AV receiver cannot read the iPod/iPhone. To open a folder, use q/w to select it, and then press ENTER. Tip • With the default settings, the iPod/iPhone is operated in Standard Mode. • Pressing MODE repeatedly switches back to Standard Mode. □ When you disconnect the iPod/iPhone, the AV receiver stores the mode.

This means that if you disconnect when in Extended Mode (Music), the AV receiver will start in Extended Mode (Music) the next time you connect the iPod/iPhone. □ You can also use q/w, ENTER and TUNING MODE buttons on the front panel.

tUNING MODE allows you to switch modes. □ When connecting your iPod/iPhone with a USB cable, we recommend you use an official USB cable from Apple Inc. 3 Understanding Icons on the Display This section describes icons that appear on the display during media playback. displayed Icons Icon Description Folder Track Playback Pause 4 Fast Forward Fast Reverse Artist Album Repeat One Track Repeat Folder (USB Device) Repeat Shuffle Shuffle Album (iPod/iPhone) Use q/w to select a music/video file , and press ENTER or 1 to start playback. Note • Do not disconnect the USB device or USB cable that comes with iPod/iPhone to the USB port at the front of the AV receiver, while the message “Connecting.

” appears on the display. □ If you connect an iPod or iPhone to the USB port on this device, no sound will be output from the headphones jack. Listening to Internet Radio You need to connect the AV receiver to your home network (□ page 73). You can select Internet radio stations by connecting to the AV receiver from your computer and selecting stations in your web browser. Internet radio URLs in the following formats are supported: PLS, M3U, and podcast (RSS).

However, depending on the type of data or audio format used by the Internet radio station, you may not be able to listen to some stations. Note • Services available may vary depending on the region. See the separate instructions for more information. Note • To view the video contents of your iPod/iPhone, connect it to the USB port and AUX INPUT VIDEO jack on the AV receiver’s front panel, using the official Apple Composite AV Cable. □ Depending on your iPod/iPhone model and generation, the displayed items may vary and the support for Extended Mode (Video) is not guaranteed. Listening to vTuner Internet Radio This unit includes the full vTuner Internet Radio Service at no additional charge. Once you have connected your unit to the Internet you can select vTuner Internet Radio to search for and play Internet radio stations and podcasts at any time. To enhance your Internet radio experience, the <http://onkyo.vtuner.Com/portal> is available to you as an easy way to browse to find stations, set up/organize your favorites, add your own stations, get help, etc.

After the first time you try vTuner Internet Radio on your unit you can use the MAC Address of your unit to create a member login account (email address and password) on the <http://onkyo>. To verify your MAC Address, please see “Network” (□ page 56). Standard Mode control The content information is not displayed, but can be operated using the iPod/iPhone or the remote controller (USB). Note • The following iPod models are not supported in Standard Mode. (They can only be controlled in Extended Mode). □ iPod with video – iPod nano (1st generation) 1 2 Playing a USB Device This section explains how to play music files from a USB device (e. The “NET” screen appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.



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Use q/w/e/r to select "vTuner Internet Radio" and then press ENTER. 1 2 3 4 Press USB to select the "USB" input. Plug your USB device into the AV receiver's USB port. the USB indicator lights. It will flash if the AV receiver cannot read the USB device. To open a folder, use q/w to select it, and then press ENTER. Use q/w to select a music file, and press ENTER or 1 to start playback.

Note • Do not disconnect the USB device or USB cable that comes with iPod/iPhone to the USB port at the front of the AV receiver, while the message "Connecting. Registering My Favorites*1 You can add the currently playing song or station to the "My Favorites". You can save up to 40 Internet radio stations. Once you've added a station to the list, simply select it in the "My Favorites" menu, and then press ENTER to start playback. *1 From the search results you can save the stations and songs but cannot listen to them directly.

my Music 0 : 11 Great Artist My Favorite Press MENU to enable selection from the following menu items. Stations like this: Stations like the one currently being played back are displayed. add to My Favorites: Adds a station to My Favorites list. Press TOP MENU to go to the top menu of the Internet Radio services. Tip • By pressing SEARCH, you can toggle between the playback screen and the radio list screen. □ Top menu of Internet Radio Create new station: Add a favorite station or Internet radio to the My Favorites. Rename this station: You can rename the stations and songs saved in "My Favorites" list. Delete from My Favorites: You can delete the stations and songs saved in "My Favorites" list. 1 2 3 Press MENU with the station selected or while a song is playing. use q/w to select "Add to My Favorites", and press ENTER.

Use q/w/e/r to select "OK", and then press ENTER. Tip • If you choose to rename the station, see "Name Edit" (□ page 50). Listening to Other Internet Radio To listen to other internet radio stations, insert the following step after step 1 in the "Listening to vTuner Internet Radio" section. 1 On your computer, start your web browser and enter the AV receiver's IP address in the browser's Internet address (URL) field. The browser connects to the AV receiver (WEB Setup Menu). note • The AV receiver's IP address is shown on "IP Address" (□ page 56). □ If you're using DHCP, your router may not always allocate the same IP address to the AV receiver, so if you find that you can't connect to the AV receiver, recheck the AV receiver's IP address on the "Network" screen. 2 3 4 5 Click on the "My Favorites" tab. Enter the preset name and Internet address (URL). click "Save" to save the Internet radio station.

The Internet radio station is then added to "My Favorites". En 25 Playing Music Files on a Server You need to connect the AV receiver to your home network (□ page 73). This section explains how to play music files on a computer or media server through the AV receiver (Server Playback). Windows Media Player 11 Setup This section explains how to configure Windows Media Player 11 so that the AV receiver can play the music files stored on your computer. The "Media Sharing" dialog box appears.

Select the "Share my media" check box, and then click "OK". Select the AV receiver in the list, and then click "Allow". click "OK" to close the dialog box. This completes the Windows Media Player 11 configuration. You can now play the music files in your Windows Media Player 11 library through the AV receiver.

Tip • Windows Media Player 11 can be downloaded for free from the Microsoft web site. Tip • To go back to the previous screen, press RETURN. Use q/w to select a server, and then press ENTER. The menu is displayed according to the server functions. Note • The search function does not work with media servers which do not support this function. □ Photos and movies stored on a media server cannot be accessed from the AV receiver. □ Depending on the sharing settings in the media server, the AV receiver may not be able to access the content. See the instruction manual of the media server. Remote Playback You need to connect the AV receiver to your home network (□ page 73). Remote Playback means you can play the music files stored on a media server or personal computer with the AV receiver by operating the controller device in the home network.

5 Use q/w to select an item, and then press ENTER or 1 to start playback. Windows Media Player 12 Setup My favorite song 1 0 : 11 Artist name My favorite album This section explains how to configure Windows Media Player 12 so that the AV receiver can play the music files stored on your personal computer. Note • Depending on the media server, 5/4/3 may not work. • If the message "No Item. □ appears, this means that no information can be retrieved from the server. In this case, check your server, network, and AV receiver connections. Wording may vary slightly depending on the network location. Select the product in the list, and then click "Allowed". click "OK" to close the dialog box. This completes the Windows Media Player 12 configuration.

You can now play the music files in your Windows Media Player 12 library. En 26 Using Remote Playback Listening to AM/FM Radio This section describes the procedure using the buttons on the front panel unless otherwise specified. 1 2 3 Start Windows Media Player 12. To enable remote playback, you must first configure Windows Media Player 12. Note • Remote playback cannot be used while the music files of another media server are being played.

You must stop their playback first. Using the Tuner With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection. You can also change the frequency steps (□ page 54). For selecting another media server, select the desired media server from the "Other Libraries" menu on Windows Media Player 12.

Select the AV receiver from the right-click menu. The "Play to" window appears and playback on the product starts. Operations during remote playback can be made from the "Play to" window of Windows 7 on your personal computer. During remote playback, operations (such as Playback, Pause, Fast Forward, Fast Rewind, Previous, Next, Repeat, Random) cannot be made. adjusting the Volume. You can adjust the volume by adjusting the volume bar in the "Remote playback" window. The default maximum volume level is 82 (0dB). If you wish to change this, enter the value from the Web Setup in your browser. The volume value of the remote window and the volume value of the AV receiver may not always match. Adjustments you make to the volume in the AV receiver will not be reflected in the "Remote playback" window.



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Each time you press TUNER, the radio band changes between AM and FM. Band Frequency (Actual display depends on the country.) 5 Tuning into Radio Stations □ Auto tuning mode 1 2 Press TUNING MODE so that the AUTO indicator lights on the display. When tuned into a station, the TUNED indicator lights. When tuned into a stereo FM station, the FM STEREO indicator lights on the display, as shown. TUNED AUTO 6 FM STEREO Tip • Tuning into weak FM stereo stations If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono. searching stops when a station is found. 1 2 Press TUNING MODE so that the AUTO indicator goes off on the display. press and hold TUNING q/w.

The frequency stops changing when you release the button. Press the buttons repeatedly to change the frequency one step at a time. En 27 □ Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. □ Deleting Presets 1 2 Select the preset that you want to delete. see the previous section.

While holding down MEMORY, press TUNING MODE. The preset is deleted and its number disappears from the display. 1 On the remote controller, press TUNER repeatedly to select “AM” or “FM”, followed by D. tUN. (Actual display depends on the country.

) 2 Within 8 seconds, use the number buttons to enter the frequency of the radio station. If you have entered the wrong number, you can retry after 8 seconds.

Using RDS (excluding North American models) RDS works only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator lights. When the station is broadcasting text information, the text can be displayed. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e. The AV receiver supports four types of RDS information: PS (Program Service) When tuned to an RDS station that's broadcasting PS information, the station's name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds. RT (Radio Text) When tuned to an RDS station that's broadcasting text information, the text will be shown on the display as described in the next section.

PTY (Program Type) This allows you to search for RDS radio stations by type (□ page 29). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (□ page 29). Note • In some cases, the text characters displayed on the AV receiver may not be identical to those broadcast by the radio station. Also, unexpected characters may be displayed when unsupported characters are received. This is not a malfunction. □ If the signal from an RDS station is weak, RDS data may be displayed intermittently or not at all. Presetting AM/FM Stations You can store a combination of up to 40 of your favorite AM/FM radio stations as presets. 1 2 Tune into the AM/FM station that you want to store as a preset. The preset number flashes. (Actual display depends on the country.

) 3 4 While the preset number is flashing (about 8 seconds), use PRESET e/r to select a preset from 1 through 40. Press MEMORY again to store the station or channel. The station or channel is stored and the preset number stops flashing. Repeat this procedure for all of your favorite AM/FM radio stations. Note • You can name your radio presets for easy identification (□ page 50).

Its name is displayed instead of the band and frequency. □ Selecting Presets 1 To select a preset, use PRESET e/r on the AV receiver, or the remote controller's CH +/- . Tip • You can also use the remote controller's number buttons to select a preset directly. The RT information scrolls across the display.

Note • The message “Waiting” may appear while the AV receiver waits for the RT information.

□ If the message “No Text Data” appears on the display, no RT information is available. □ Finding Stations by Type (PTY) You can search for radio stations by type. Science and technology Varied Pop music Rock music Middle of the road music Light classics Serious classics Other music Weather Finance Children's programmes Social affairs Religion Phone in Travel Leisure Jazz music Country music National music 1 2 3 4 Press RT/PTY/TP twice. The current program type appears on the display. Use PRESET e/r to select the type of program you want. See the table shown later in this chapter. to start the search , press ENTER. The AV receiver searches until it finds a station of the type you specified, at which point it stops briefly before continuing with the search. When a station you want to listen to is found, press ENTER. If no stations are found, the message “Not Found” appears.

□ Listening to Traffic News (TP) You can search for stations that broadcast traffic news. Oldies music Folk music Documentary Alarm test Alarm 1 Press RT/PTY/TP three times. If the current radio station is broadcasting TP (Traffic Program), “[TP]” will appear on the display, and traffic news will be heard as and when it's broadcast. If “TP” without square brackets appears, this means that the station is not broadcasting TP. to locate a station that is broadcasting TP , press ENTER. The AV receiver searches until it finds a station that's broadcasting TP. If no stations are found, the message “Not Found” appears. 2 En

29 Using Basic Functions Using the Automatic Speaker Setup With the supplied calibrated microphone, Audyssey 2EQ® automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position. Audyssey 2EQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone.

Audyssey 2EQ can be used with Audyssey Dynamic EQ® and Audyssey Dynamic Volume® (□ pages 48, 49). Before using this function, connect and position all of your speakers. Audyssey 2EQ offers two ways of measuring: the “Audyssey Quick Start” and “Audyssey 2EQ Full Calibration”. □ “Audyssey Quick Start” uses the measurement from one position to perform the speaker setting only. □ “Audyssey 2EQ Full Calibration” uses the measurement from three positions to correct room response in addition to the speaker setting.

The more positions are used in measuring, the better the listening environment will become. We recommend using a measurement from three positions to create the best listening environment. The Quick Start takes 2 minutes and Full Calibration takes about 10 minutes. Total measurement time varies depending on the number of speakers.



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The distances from position a to b and a to c must be at least 1 meter (3.

3 ft). TV c ab : Listening area Note • Make the room as quiet as possible. Background noise and Radio Frequency Interference (RFI) can disrupt the room measurements. Close windows, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices. Turn off the cell phone (even if it is not in use) or place it away from all audio electronics. • The microphone picks up test tones played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup run. □ Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected. A to c: Listening position 1 2 3 Turn on the AV receiver and the connected TV. On the TV, select the input to which the AV receiver is connected. On the subwoofer, set the OUTPUT LEVEL control to THX POSITION.

Set the speaker setup microphone at the Main Listening Position a, and connect it to the SETUP MIC jack. SETUP MIC jack Measurement procedure To create a listening environment in your home theater that all listeners will enjoy, Audyssey 2EQ takes measurements at up to three positions within the listening area. Position the microphone at ear height of a seated listener with the microphone tip pointed directly at the ceiling using a tripod. Do not hold the microphone in your hand during measurements as this will produce inaccurate results. A First measurement position Also referred to as the Main Listening Position this refers to the most central position where one would normally sit within the listening environment. Audyssey 2EQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer. b Second measurement position The right side of the listening area. C Third measurement position The left side of the listening area. speaker setup microphone The speaker setting menu appears. Note • The on-screen menus appear only on a TV that is connected to the HDMI OUT.

If your TV is connected to other video outputs, use the AV receiver's display when changing settings. En 30 4 When you've finished making the settings, press ENTER. 2EQ: Auto Setup AUDYSSEY 10 Powered Zone 2 Surround Back/Front High No Surround Back Use q/w to select a target, and use e/r to change the setting. After the results of Audyssey 2EQ have been saved, the menu will display the "Audyssey" (□ page 48), "Dynamic EQ" (□ page 48), "Dynamic Volume" (□ page 49) settings. Note • When "Audyssey Quick Start" has been used for measurement, "Audyssey" cannot be selected. • These settings are applied to all input selectors. Perform the "Speaker Setup" according to your speaker configuration: – Powered Zone 2 (□ page 43) – Surround Back/Front High (□ page 44) When an optional unit is connected to the UNIVERSAL PORT jack on the AV receiver, the optional unit setting may appear on the speaker setting menu. Test tones are played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup runs. This process takes a few minutes. Please refrain from talking during measurements and do not stand between speakers and the microphone.

Do not disconnect the speaker setup microphone during Audyssey 2EQ Room Correction and Speaker Setup, unless you want to cancel the setup. If you select "Audyssey Quick Start", you will go to step 9. Place the setup microphone at the next position, and then press ENTER. audyssey 2EQ performs more measurements. This takes a few minutes. When prompted, repeat step 7. Use q/w to select an option, and then press ENTER. 2EQ: Auto Setup AUDYSSEY Note • You can cancel Audyssey 2EQ Room Correction and Speaker Setup at any point in this procedure simply by disconnecting the setup microphone. □ Do not connect or disconnect any speakers during Audyssey 2EQ Room Correction and Speaker Setup. □ If the AV receiver is muted, it will be unmuted automatically when Audyssey 2EQ Room Correction and Speaker Setup starts.

□ Changes to the room after Audyssey 2EQ Room Correction and Speaker Setup requires you run Audyssey 2EQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed. Note • You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using e/r. En 31 Error Messages While Audyssey 2EQ® Room Correction and Speaker Setup is in progress, one of the error messages below may appear. 2EQ: Auto Setup AUDYSSEY Changing the Speaker Setup Manually You can manually make changes to the settings found during Audyssey 2EQ Room Correction and Speaker Setup. See also: • "Speaker Configuration" (□ page 44) • "Speaker Distance" (□ page 44) • "Level Calibration" (□ page 45) • "Equalizer Settings" (□ page 45) Note • Sometimes due to the electrical complexities of subwoofers and the interaction with the room, THX recommends setting the level and the distance of the subwoofer manually. □ Sometimes due to interaction with the room, you may notice irregular results when setting the level and/or distance of the main speakers. If this happens, THX recommends setting them manually. Ambient noise is too high. □ Ambient noise is too high. The background noise is too loud.

Remove the source of the noise and try again. • Speaker Matching Error! The number of speakers detected was different from that of the first measurement. If this message appears after 2 or 3 attempts, contact your Onkyo dealer. Using a Powered Subwoofer If you're using a powered subwoofer and it outputs very low-frequency sound at a low volume level, it may not be detected by Audyssey 2EQ Room Correction and Speaker Setup. If the "Subwoofer" appears on the "Review Speaker Configuration" screen as "No", increase the subwoofer's volume to the half-way point, set it to its highest crossover frequency, and then try running Audyssey 2EQ Room Correction and Speaker Setup again.

Note that if the volume is set too high and the sound distorts, detection issues may occur, so use an appropriate volume level. En 32 Using the Listening Modes Selecting Listening Modes See "About Listening Modes" for detailed information about the listening modes (□ page 34). □ Listening Mode Buttons Press RECEIVER first. THX MOVIE/TV, MUSIC, GAME MUSIC MOVIE/TV GAME STEREO MOVIE/TV button This button selects the listening modes intended for use with movies and TV. MUSIC button This button selects the listening modes intended for use with music. GAME button This button selects the listening modes intended for use with video games. STEREO button This button selects the Stereo listening mode and All Channel Stereo listening mode. THX button and indicator This button selects the THX listening modes.



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The indicator lights when this mode is selected. □ The Dolby Digital and DTS listening modes can only be selected if your Blu-ray Disc/DVD player is connected to the AV receiver with a digital audio connection (coaxial, optical, or HDMI). □ The listening modes you can select depends on the format of the input signal. To check the format, see “Displaying Source Information” (□ page 40). □ While a pair of headphones is connected, you can select the following listening modes: Mono, Direct, and Stereo. □ The listening modes cannot be used while you are listening to sound through your TV speakers coming from components connected to the AV receiver. En 33 About Listening Modes The AV receiver’s listening modes can transform your listening room into a movie theater or concert hall, with high fidelity and stunning surround sound.

□ Explanatory Notes b e a f a Front speakers b Center speaker c Surround speakers d Surround back speakers e Front high speakers f Subwoofer d c Input Source The following audio formats are supported by the listening mode. Two independent audio signal channels are reproduced through two speakers. This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel). This is a further sound enhancement to 5. 1 channel sound with two additional speakers that provide greater sound envelopment and more accurate positioning of sounds. this is DTS-ES surround sound. This surround system can produce a discrete or a matrix-encoded sixth channel from existing DTS 5. This provides a center back surround channel from 5.

1-channel sources. Speaker Layout The illustration shows which speakers are activated in each channel.

See “Speaker Configuration” for the speaker setup (□ page 44). This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices. In this mode, the sound has a dramatic feel with a similar atmosphere to Orchestra mode. In this mode, sound localization is distinct with emphasis on bass. TV Logic TV Log i c Game-RPG G ame – RPG Game-Action G ame – A c t i o n Game-Rock G ame – R o c k In this mode, sound pressure is emphasized to heighten live feel.

Game-Sports G ame – S p o r t s In this mode, reverberation is increased and sound localization decreased slightly. Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back speakers. In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room. With this mode you can enjoy a virtual surround sound even with only two or three speakers. This works by controlling how sounds reach the listener’s left and right ears.

Good results may not be possible if there’s too much reverb, so we recommend that you use this mode in an environment with little or no natural reverb. ZXC

N XCN All Ch Stereo A l l Ch S t e r e o Full Mono Fu l l M o n o T-D (TheaterDimensional) T-D □ Listening Modes Listening Mode Direct D i r e c t Description In this mode, audio from the input source is output without surround-sound processing. The speaker configuration (presence of speakers) and speaker distance settings are enabled, but much of the processing set via Home menu is disabled. A/V Sync does not have effect on the analog audio. See “Advanced Setup” for more details (□ page 41). Sound is output from the front left and right speakers and subwoofer. Input Source A S D F G H Speaker

Layout ZXC N*1 Stereo S t e r e o ZXC N Mono M o n o Use this mode when watching an old movie with a mono soundtrack, or use it with the foreign language soundtracks recorded in the left and right channels of some movies. It can also be used with DVDs or other sources containing multiplexed audio, such as karaoke DVDs. This mode is for use with PCM multichannel sources. D F XCN Multichannel Mu l t i c h En 35 Listening Mode Description Input Source Speaker Layout Dolby Pro Logic IIx*2 Dolby Pro Logic IIx expands any 2-channel source for 7.

1-channel playback. It provides a very natural and seamless surround-sound experience Dolby Pro Logic II that fully envelops the listener. As well as music and movies, video games PL Mo v i e can also benefit from the dramatic spatial effects and vivid imaging. PL PL PL PL PL x x x Mu s i c Game Mo v i e Mu s i c Game If you’re not using any surround back speakers, Dolby Pro Logic II will be S used instead of Dolby Pro Logic IIx. □ Dolby PLIIx Movie Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e. □ Dolby PLIIx Music Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e. □ Dolby PLIIx Game Use this mode with video games, especially those that bear the Dolby Pro Logic II logo. D XCN V Dolby Pro Logic IIz Height PL z H e i g h t Dolby Pro Logic IIz Height is designed to more effectively use existing S program material when height channel speaker outputs are present. Dolby D Pro Logic IIz Height can be used to upmix a variety of sources from movies F and music, but are particularly well-suited to upmix game content.

They’re especially suited to Dolby EX soundtracks that include a matrixencoded surround back channel.

The additional channel adds an extra dimension and provides an enveloping surround sound experience, perfect for rotating and fly-by sound effects. In this mode, audio from the input source is output without surround-sound processing. The speaker configuration (presence of speakers), crossover frequency, speaker distance, A/V Sync and much of the processing set via Home menu are enabled. See “Advanced Setup” for more details (□ page 41). D H B Dolby EX Do l b y Do l b y EX D EX V Dolby Digital Do l b y D D XCN Dolby Digital Plus*3 Do l b y D + D F D F D XCN XCN*1 XCN XCN*1 XCN Dolby TrueHD Do l b y T r u e HD DTS DTS DTS-HD High Resolution Audio D T S – HD HR D F D F D XCN XCN*1 XCN XCN*1 XCN DTS-HD Master Audio D T S – HD MS T R DTS Express DTS Exp r e s s DSD*4 DSD DTS 96/24 DTS 96 / 24 This mode is for use with DTS 96/24 sources.

This is high-resolution DTS with a 96 kHz sampling rate and 24-bit resolution, providing superior fidelity. Use it with DVDs that bear the DTS 96/24 logo. D XCN DTS-ES Discrete*5 ES D i s c r e t e This mode is for use with DTS-ES Discrete soundtracks, which use a G discrete surround back channel for true 6. The seven totally separate audio channels provide better spatial imaging and 360degree sound localization, perfect for sounds that pan across the surround channels. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Discrete soundtrack.

This mode is for use with DTS-ES Matrix soundtracks, which use a matrix- G encoded back-channel for 6. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Matrix soundtrack.



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