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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO HTX-22HDX. You'll find the answers to all your questions on the ONKYO HTX-22HDX in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ONKYO HTX-22HDX
User guide ONKYO HTX-22HDX
Operating instructions ONKYO HTX-22HDX
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Instruction manual ONKYO HTX-22HDX

ONKYO.

Digital Surround System

HTX-22HDX

Instruction Manual

Thank you for purchasing this Onkyo product. Please read this manual thoroughly before making any connections or plugging in your new Onkyo product. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new Onkyo product. Please retain this manual for future reference.

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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Important Safety Instructions 1. 2. 3. 4. 5. 6. 7.

8. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 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. @@@@Only use attachments/accessories specified by the manufacturer. @@@@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 at least 20 cm (8") of free space above, behind, and at the sides. The rear edge of the shelf or board above the apparatus should be set 20 cm (8") away from the back or wall, creating a fluelike gap for warm air to escape. 9. 10. 11.

12. 13. 14. 2 Precautions 1. Recording Copyright--Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder. AC Fuse--The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer. 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. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

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 shutdown the unit. 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 packs or installed batteries) must not be exposed to excessive heat from 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. 2.

3. For U.S. 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.



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4. 5. 6. · Consult the dealer or an experienced radio/TV technician for help. For Canadian Models NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. 7. 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. 8. Modèle pour les Canadien REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modèles dont la fiche est polarisée: 3 Precautions--Continued ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. Package Contents Make sure you have the following items: 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. IMPORTANT The wires in the mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. HTX-22HDXPAW Amp/Subwoofer HTX-22HDXST Front

Speakers Remote controller and two batteries (AA/R6) 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. Cables with red line for the front speakers (11.

5 ft., 3.5 m) 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 Power cord (Power cord varies from country to country.) Rubber feet for the Amp/Subwoofer (x4) Rubber feet for the front speakers (x8) * In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operation are the same regardless of color. ONKYO EUROPE ELECTRONICS GmbH 4 Speaker Precautions Placement · The subwoofer cabinet is made out of wood and is therefore sensitive to extreme temperatures and humidity. Do not put it in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen. · Do not put water or other liquids close to the speakers.

If liquid is spilled over the speakers, the drive units may be damaged. · Speakers should only be placed on sturdy, flat surfaces that are free from vibration. Putting them on uneven or unstable surfaces, where they may fall and cause damage, will affect the sound quality. · The HTX-22HDXPAW Amp/Subwoofer is designed to be used in the upright vertical position only. Do not use it in the horizontal or tilted position. · If the subwoofer is used near a turntable, CD/Blu-ray/DVD player/recorder, howling or skipping may occur. To prevent this, position the subwoofer away from such components, or turn down the volume. · The HTX-22HDXPAW Amp/Subwoofer generates heat and has vents at the top and rear to allow this heat to escape. When installing, leave at least 20 cm (8") of free space above and behind. Also, leave at least 20 cm (8") of fre.

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Position them at the sides of the listener, or slightly behind, about 23 feet (60100 cm) above ear level. Ideally they should be equally spaced from the listener. Center speaker (optional SKS-22X) This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. For movies it's used mainly for dialog. Position it close to your TV (preferably on top) facing forward at about ear level, or at the same height as the front left and right speakers.

Subwoofer (HTX-22HDXPAW Amp/ Subwoofer) The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the way along the front wall, as shown. Tip: To find the best position for your subwoofer, while playing a movie or some music with good bass, experiment by placing your subwoofer at various positions within the room and choose the one that provides the most satisfying results. Tip: Theater-Dimensional listening mode With this mode, you can enjoy a virtual 5.

1 surround sound even with only two or three speakers. 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 (see pages 35, 42). Notes: The HTX-22HDX Digital Surround System consists of an Amp/Subwoofer and two front speakers. Designed especially for use with the HTX-22HDX, the optional Onkyo SKS-22X speaker package consists of a center speaker and two surround speakers that can be connected directly to the HTX-22HDX. Be sure to make the necessary Speaker Configuration settings when you connect additional speakers (see page 39). Corner position 1/3 of wall position 14 Connecting the Speakers--Continued Affixing the Rubber Feet You can improve the sound quality by affixing the included rubber feet to raise the speakers off the mounting surface thereby reducing the contact area. The feet also make the speakers stable and prevent them from moving around. Rubber Feet for the Amp/Subwoofer HTX-22HDXPAW Note: · When you pick up the Amp/Subwoofer to affix the rubber feet, place your hands away from the speaker underneath. Speaker Rubber foot Amp/Subwoofer underside Rubber Feet for the Front Speakers Rubber foot HTX-22HDXST top HTX-22HDXST bottom Rubber foot Keyhole mounting slot If you intend to wall-mount the front speakers using their keyhole slots, affix two rubber feet to the rear of each speaker for added stability. Note: · Before you wall-mount the front speakers, check the strength of the wall.

The supporting strength of the screws depends on the wall material and the position of the studs. Use screws as thick and long as possible, with a head diameter of 10 mm (3/8") or less and a thread diameter of 4 mm (5/32") or less. (We recommend that you consult a professional home electronics installer.)

15 Connecting the Speakers--Continued Speaker Connection Precautions Read the following before connecting your speakers: · Disconnect the power cord from the wall outlet before making any connections. · Connect only speakers with an impedance of 6 ohms or higher. · Read the instructions supplied with your speakers. · Pay close attention to speaker wiring polarity. Connect positive (+) terminals to only positive (+) terminals, and negative (-) terminals to only negative (-) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural. · Unnecessarily long or very thin speaker cables may affect the sound quality and should be avoided.

· Be careful not to short the positive and negative wires. Doing so may damage the HTX-22HDX. · Don't connect more than one cable to each speaker terminal. Doing so may damage the HTX-22HDX. · Don't connect a speaker to several terminals.

Making the Connections 1 Remove the precut insulation from the ends of the speaker cables, and twist the bare wires tightly. lever 2 Push the insert to open the hole, the bare wire into the hole, and then release the lever. Make sure that the speaker terminals are gripping the bare wires, not the insulation. 16 Connecting the Speakers--Continued Connecting only the Front Speakers The following hookup diagram shows how to connect the included front speakers for 2.1-channel operation.

Front right speaker Red terminal Red line Red line Front left speaker White terminal Red line Red line Supplied speaker cable AC INLET Supplied speaker cable CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER Connecting 5.1 Speakers With additional speakers, such as the optional Onkyo SKS-22X speaker package, you can enjoy 5.1-channel surround sound. The following hookup diagram shows how to connect the included front speakers, a center speaker, and left and right surround speakers. Front right speaker Center speaker Front left speaker AC INLET CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER Surround right speaker Surround left speaker 17 Connecting AV Components About AV Connections · Before making any AV connections, read the manuals supplied with your other AV components. · Don't connect the power cord until you've completed and double-checked all AV connections. Optical Digital Jacks The HTX-22HDX's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way. Caution: To prevent shutter damage, hold the optical plug straight when inserting and removing. RCA Connection Color Coding RCA connections are usually color coded: red and white.

Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R"). Use white plugs to connect left-channel audio inputs and outputs (typically labeled "L"). Left (white) Analog audio Left (white) Right (red) Right (red) · Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions). Right! Wrong! · To prevent interference, keep audio and video cables away from power cords and speaker cables. 18

Connecting AV Components--Continued Making HDMI Connections You can connect components with HDMI outputs to the HTX-22HDX's HDMI IN 1, IN 2, and IN 3 inputs and connect your HDMI TV to the HTX-22HDX's HDMI OUT. You need HDMI cables to make HDMI connections. When you connect a component to an HDMI jack, the HDMI indicator on the display lights up. Video Signals Digital video signals received by the HDMI IN jacks are output by the HDMI OUT for display on your TV. Audio Signals Digital audio signals received by the HDMI IN jacks are output by the speakers connected to the HTX-22HDX.



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Normally, they are not output by the HDMI OUT.

Hint! To listen to audio received by the HDMI IN jacks through your TV's speakers: · If your TV is -compatible, set the TV Control setting to On (page 44). · If your TV is not -compatible, set the Audio TV Out setting to On (page 43) or the TV Control setting to Off (page 44). · Set your Blu-ray/DVD player/recorder's HDMI audio output setting to PCM. HDMI OUT HDMI IN 1 HDMI IN AC INLET Blu-ray/DVD player/recorder : Signal flow TV CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER Notes: · If your TV supports the Audio Return Channel in HDMI Version 1.4, you can listen to the sound from your TV through the HTX-22HDX (see "ARC" on page 44).

· Set the output resolution of your Blu-ray/DVD player/recorder so that it matches the resolution of your TV before starting playback. · The HDMI video stream is compatible with DVI (Digital Visual Interface), so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (Note that DVI connections only carry video, so you'll need to make a separate connection for audio.) However, reliable operation with such an adapter is not guaranteed. In addition, video signals from a PC are not supported.

19 Connecting AV Components--Continued · To listen to an HDMI source component through the HTX-22HDX, you must configure your system so that video from the HDMI source component can be displayed on your TV (i.e., on your TV, select the HDMI input that's connected to the HTX-22HDX's HDMI OUT).

This is necessary because a component identification check has to be performed on your TV before an HDMI source component can output any signals. If your TV is off or set to a different input source, the HTX-22HDX may produce no sound or the sound may be distorted. · The HDMI audio signal (sampling rate, bit length, etc.) may be restricted by the connected source component. If the picture is poor or there's no sound from a component connected via HDMI, check its setup. Refer to the connected component's instruction manual for details. · If you set the Audio TV Out setting to On (page 43) to listen through your TV's speakers, if you adjust the volume on the HTX-22HDX, the HTX-22HDX's speakers will also output sound.

Also, if you set the TV Control setting to On (page 44) to listen through the speakers of an -compatible TV, if you adjust the volume on the HTX-22HDX, the HTX-22HDX's speakers will output sound when the TV's speakers are muted. To stop the HTX-22HDX's speakers producing sound, change the settings, change your TV's settings, or turn down the HTX-22HDX's volume. · See page 49 for more information about HDMI. **20 Connecting AV**

Components--Continued Connecting Components with Digital Outputs You can connect components with digital audio outputs to the HTX-22HDX's DIGITAL COAXIAL IN 1, OPTICAL IN 2, and OPTICAL IN 3 inputs. Choose a digital input (coaxial or optical) that matches the digital audio output on your source component. To enjoy Dolby Digital and DTS, you must connect your Blu-ray/DVD player/recorder with an optical or coaxial digital audio cable. If your Blu-ray/DVD player/recorder supports HDMI, you can use an HDMI connection instead (see page 49). Notes: · If your TV supports the Audio Return Channel in HDMI Version 1.4, and your TV is connected to the HTX-22HDX via HDMI, a digital audio connection (coaxial or optical) from your TV to the HTX-22HDX is not necessary (see page 49). · On some source components, Dolby Digital and DTS output may be turned off by default, in which case you'll need to turn it on.

· If one of your source components is noticeably louder or quieter than your others, use the IntelliVolume function to adjust its input level (see page 42). CD player, etc. Coaxial digital audio cable (not supplied) AC INLET Blu-ray/DVD player/recorder, set-top box, etc. CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER Games console, TV, computer, etc. Optical digital audio cable (not supplied) **21 Connecting AV Components--Continued Connecting Components with Analog Outputs** You can connect components with analog audio outputs to the HTX-22HDX's LINE 1 and LINE 2 inputs and enjoy surround sound with Dolby Pro Logic II, DTS, and Onkyo's original DSP listening modes.

Notes: · If your TV supports the Audio Return Channel in HDMI Version 1.4, and your TV is connected to the HTX-22HDX via HDMI, an analog audio connection from your TV to the HTX-22HDX is not necessary (see page 49). · When listening to compressed music files, such as MP3, you can use the HTX-22HDX's Music Optimizer function to enhance the sound quality (see page 42). Tuner, TV, etc. RCA audio cable Analog audio outputs CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER AC INLET Cassette, MD recorder, Onkyo RI Dock (iPod), etc.

RCA audio cable Hint! If your TV has no audio outputs, connect an audio output from your VCR or settop box to the HTX-22HDX and use its tuner to listen to TV programs through the HTX-22HDX. **22 Connecting AV Components--Continued Connecting Onkyo Components** Connecting an Onkyo RI-capable component or Onkyo Dock with iPod to the HTX-22HDX with an cable and RCA audio cable will allow you to use the following system control functions. An cable is a special cable for use with Onkyo's (Remote Interactive) control system. Auto Power On/Standby If you turn on or start playback on the Onkyo RI-capable component or Onkyo Dock with iPod, the HTX-22HDX will automatically turn on and select the RI-capable component or iPod as the input source. Similarly, when the HTX-22HDX is set to Standby, the Onkyo RI-capable component or Onkyo Dock with iPod will also go on Standby. Direct Change When playback is started on the Onkyo RI-capable component or Onkyo Dock with iPod, the HTX-22HDX automatically selects the RI-capable component or iPod as the input source. Remote Controller Operation In addition to controlling the HTX-22HDX, you can also use the HTX-22HDX's remote controller to control an Onkyo RI-capable component or Onkyo Dock with iPod. When doing so, remember to point the remote controller at the HTX-22HDX and not at the RI-capable component or Onkyo Dock. Hookup information is shown below. The remote controller buttons that you can use to control an Onkyo RI-capable component or Onkyo Dock with iPod are explained on pages 25 and 26.

Hookup The following diagram shows how to connect an Onkyo RI-capable component and RI Dock with iPod to the HTX-22HDX for operation. Use the cables supplied with the RI-capable component and RI Dock. An cable is not supplied with the HTX-22HDX. cable cable Onkyo RI-capable component STANDBY HDMI Thru RI Dock SUPER AUDIO CD & DVD AUDIO / VIDEO PLAYER REPEAT SURROUND PROGRESSIVE VIDEO OFF STANDBY / ON STANDBY DISPLAY L/R audio out L/R audio out RCA audio cable RCA audio cable **23 Connecting AV Components--Continued Notes:** · If you connect both an Onkyo ND-S1 Digital Media Transport and RI Dock to the HTX-22HDX, since only one input at a time can be set to the "DOCK" input display, connect the ND-S1 to an OPTICAL DIGITAL input, and set that input to the "DOCK" input display, and connect the RI Dock to a LINE input, and set that input to the "TAPE," "MD," or another input display.



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The RI Dock will function properly even though the input display does not match the type of device. · Use only cables for connections. cables are supplied with Onkyo players (DVD, CD, etc.). · Some components have two jacks. You can connect either one to the HTX-22HDX.

The other jack is for connecting additional -capable components. · Connect only Onkyo components to jacks. Connecting other manufacturer's components may cause a malfunction. · Some components may not support all functions. Refer to the manuals supplied with your other Onkyo components.

ND-S1/Onkyo Dock Linked Functions See page 26 for linked system control functions. iPod Alarm Function If you use the Alarm function on your iPod to start playback, the HTX-22HDX will turn on at the specified time and select the input to which the ND-S1 or Onkyo Dock is connected automatically. Notes: · Linked functions do not work with video playback, or when the alarm on your iPod is set to play a sound. · While your iPod is inserted in an ND-S1 or Onkyo Dock, its volume control is disabled. Operating Notes · Use the volume controls on the HTX-22HDX to adjust the volume.

· If you use your iPod with any other accessories connected, playback detection may not work. · If you adjust the volume control on your iPod while it's inserted in an ND-S1 or Onkyo Dock, make sure it's set to a suitable level before plugging in your earphones. · If you use a 5th Generation iPod or iPod nano in an ND-S1, during playback the click wheel will not work, so to control functions other than play and pause, use the HTX-22HDX's remote controller. 24 Connecting AV Components--Continued Controlling Other Components CD/CD-R player Button a b TOP MENU Arrow []/[]/[] and ENTER DVD SETUP Play [] Stop [] Pause [] Next [] Previous [] Rewind [] Fast Forward [] MENU DISPLAY RETURN SHUFFLE MODE REPEAT *1*2 *2 *2 *2 A 1 2 3 C 4 5 6 7 8 9 0 B D E c d e f g h i j k l m n o *3 *2*4 : Button active. *1. Displays a DVD's top menu or a DVD's title. *2. When changing settings, adjusting the levels of individual speakers, or outputting the test tone, the Arrow, [ENTER], and [RETURN] buttons operate the HTX-22HDX, and the [TOP MENU], [MENU], and [DVD SETUP] buttons are disabled. *3. Press and hold down for 3 seconds to switch to display.

Displays information about the current disc, title, chapter, or track, including elapsed time, remaining time, total time, and so on. *4. Exits the DVD player's setup menu or returns to the previous menu. Note: · With some components, certain buttons may not work as expected, and some may not work at all. Note: ·

When you connect an Onkyo RI-capable component to LINE 1 or LINE 2, change the input display for that input to match the type of component that you connect (see page 30). Cassette recorder Component MD recorder Blu-ray/DVD player The following buttons can be used to control Onkyo components (Blu-ray/DVD player/ recorder, MD recorder, CD/CD-R player, etc.) connected with . See page 23 for hookup and setting information. 25 Connecting AV Components--Continued Controlling an Onkyo Dock (iPod) The following buttons can be used to control an Onkyo Dock with iPod that's connected with . See page 23 for hookup and setting information.

d Play [] button Works as a Play/Pause button. e Pause [] button Pauses playback. f Next [] button Selects the next song. g Previous [] button k a b c l Restarts the current song. Press it twice to select the previous song. h Fast Forward [] button Press and hold to fast forward. i Rewind [] button Press and hold to rewind. j PLAYLIST []/[] buttons Selects the previous or next iPod playlist. k MENU button d e 6 7 8 9 j Displays a menu. l DISPLAY button m n o Press and hold down for 3 seconds to switch to iPod display. Turns on the backlight. m SHUFFLE MODE button Used with the shuffle function. n REPEAT button Used with the repeat function. o ALBUM []/[] button Selects the next or previous iPod album. a TOP MENU button*1 Works the same as the ND-S1's [iPod/PC] button. Press repeatedly to select your iPod or PC. Notes: · *1: These buttons work only with the Onkyo ND-S1. · If you're using an ND-S1, set it to iPod mode (iPod button/ indicator lit). · Set the RI Dock's RI MODE switch to HDD or HDD/DOCK. · See the Onkyo Dock's instruction manual for more details.

b Arrow []/[] and ENTER buttons Used to navigate menus and select items. c DVD SETUP button*1 Works the same as the ND-S1's [SYNC/UNSYNC] button. Press this button to sync your iPod. To cancel sync, press and hold this button for at least 2 seconds. 26 Turning On the HTX-22HDX Connecting the Power Cord To wall outlet Turning On and Standby ON/STANDBY AC INLET CAUTION : SPEAKER IMPEDANCE 6 ~ 16/SPEAKER MPP STANDBY indicator Supplied power cord STANDBY HDMI Thru Before connecting the power cord, connect all of your speakers and other components. ON/STANDBY 1 2 Connect the supplied power cord to the HTX-22HDX's AC INLET. Plug the other end of the power cord into a suitable wall outlet. On the HTX-22HDX, press the [ON/STANDBY] button. On the remote controller, press the [ON/STANDBY] button. The STANDBY indicator lights up.

Notes: · Turning on the HTX-22HDX may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the HTX-22HDX into a different branch circuit. · Do not use a power cord other than the one supplied with the HTX-22HDX. The supplied power cord is designed exclusively for use with the HTX-22HDX and should not be used with any other equipment. · Never disconnect the power cord from the HTX-22HDX while the other end is still plugged into a wall outlet.

Doing so may cause an electric shock. Always disconnect the power cord from the wall outlet first, and then the HTX-22HDX. The HTX-22HDX comes on, the display lights up, and the STANDBY indicator goes off. To turn off the HTX-22HDX, press the [ON/STANDBY] button, or press the remote controller's [ON/STANDBY] button. The HTX-22HDX will enter Standby mode.

To prevent any loud surprises the next time you turn on the HTX-22HDX, turn down the volume before you turn it off. 27 Playing Your Components Basic HTX-22HDX Operation 1. 1 3 3 STANDBY HDMI Thru 1 [INPUT] button 1 Press the HTX-22HDX's input source. repeatedly to select an To select an input source with the remote controller, use its [INPUT SELECTOR] buttons. 4 Select a listening mode and enjoy! See "Using the Listening Modes" on page 32. Note: · You can change various settings in Setup (see page 37). The input source will change 1 second after you release the [INPUT] or [INPUT SELECTOR] button.



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2 Start playback on the source component. To watch a video source that's connected to an HDMI IN, on your TV, select the video input that's connected to the HTX-22HDX's HDMI OUT. On some Blu-ray/DVD player/recorders, you may need to change the digital or HDMI audio output settings.

3 To adjust the volume, use the butHTX-22HDX's VOLUME []/[] tons, or the remote controller's [VOLUME] buttons. Since the HTX-22HDX is designed for home theaters, it has a wide volume range for precise adjustment. The volume can be adjusted from Min, 1 through 79, or Max. You can limit the maximum volume with the MaxVolume setting (see page 43). 28 Playing Your Components--Continued Using the Sleep Timer SLEEP DIMMER With the sleep timer, you can set the HTX-22HDX so that it turns off automatically after a specified period. Press the remote controller's [SLEEP] button repeatedly to select the required sleep time. MUTING Setting the Display Brightness You can adjust the brightness of the display. Press the remote controller's [DIMMER] button repeatedly to select dim, dimmer, or normal brightness. The sleep time can be set from 90 to 10 minutes in 10 minute steps. When the sleep timer has been set, the SLEEP indicator appears on the display, as shown.

The selected sleep time appears on the display for about 5 seconds, then the previous display appears. SLEEP indicator Muting the HTX-22HDX You can temporarily mute the output of the HTX-22HDX. Press the remote controller's [MUTING] button. To cancel the sleep timer, press the [SLEEP] button repeatedly until the SLEEP indicator disappears. To check the remaining sleep time, press the [SLEEP] button.

Note that if you press the [SLEEP] button while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes. The output is muted and the MUTING indicator flashes on the display. To unmute the HTX-22HDX, press the remote controller's [MUTING] button again, or adjust the volume. The output is unmuted and the MUTING indicator goes off. Muting is cancelled when the HTX-22HDX is set to Standby.

29 Playing Your Components--Continued Changing the Input Display You can change the input display so that it shows the type of component connected to an input when that input is selected. @@(about 3 seconds) to Input source & listening mode *1. If the input signal is analog, no format information is displayed. If the input signal is PCM, the sampling frequency is displayed. @@@@This is stereo (stereophonic) sound. @@This is 5.1-channel surround sound. @@This is 7.1-channel surround sound. 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. The HTX-22HDX outputs this source as 5.1-channel surround sound. 33 Using the Listening Modes--Continued Listening Modes Listening Mode Description @@The Sp Config and Sp Distance settings are active, but much of the processing set via Audio Adjust is disabled. See "Setup" on page 37 for more details. Note: · When you play source material that contains no information in the LFE (Low Frequency Effects) channel, the subwoofer will produce no sound. Sound is output by the front left and right speakers and subwoofer. 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.

The MULTI CH indicator lights up when a PCM multichannel signal is input. This mode expands any 2-channel source for 5.1-channel playback. It provides a very natural and seamless surround-sound experience that fully envelops the listener. As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging.

@@@@@ · Dolby PLII Game Use this mode when playing game discs. @@@@See "Setup" on page 37 for more details.

@@@@@ Use this mode when playing role playing game discs. Use this mode when playing action game discs.

Use this mode when playing rock game discs.

Use this mode when playing sports game discs. @@@@@@See "Front 5.1ch" on page 42 to get the best result from this mode. Input Source Speaker Layout Orchestra Unplugged Studio-Mix TV Logic Game-RPG Game-Action Game-Rock Game-Sports All Ch Stereo Full Mono T-D

(TheaterDimensional) Notes: *2. For Blu-ray discs, Dolby Digital is used. *3. The HTX-22HDX accepts DSD signals via its HDMI inputs. Depending on your player, setting your player to output PCM may produce a better sound. If this is the case, set your player to output PCM. *4.

Depending on the input source, DTS will be used. · The listening modes cannot be selected with some source formats. 35 Using the Listening Modes--Continued Adjusting Speaker Levels You can adjust the volume of each speaker while listening to an input source. These temporary adjustments are cancelled when the HTX-22HDX is set to Standby. Use the remote controller's [CH SEL] button to select each speaker, and use the Left and Right []/[] buttons to adjust the volume. CH SEL L NIGHT Late Night Function With the Late Night function, you can reduce the dynamic range of Dolby Digital material so that you can still hear quiet parts even when listening at low volume levels--ideal for watching movies late at night when you don't want to disturb anyone. Press the remote controller's [L NIGHT] button repeatedly to select the following options: You can adjust the volume of each speaker from 12 dB to +12 dB (15 dB to +12 dB for the subwoofer). Notes: · To save these adjustments, press the [TEST TONE] button. · You cannot use this function while the HTX-22HDX is muted. For Dolby Digital and Dolby Digital Plus sources, the options are: Off: Late Night function off (default). Low: Small reduction in dynamic range. High: Large reduction in dynamic range. For Dolby TrueHD sources, the options are: Auto: The Late Night function is set to On or Off automatically (default). Off: Late Night function off. On: Late Night function on.

Notes: · The Late Night function can be used only when the input source is Dolby Digital, Dolby Digital Plus, or Dolby TrueHD. · The effect of the Late Night function depends on the material that you are playing and the intention of the original sound designer, and with some material there will be little or no effect when you select the different options. · The Late Night function is set to Off when the HTX-22HDX is set to Standby. 36 Setup Setup Menus The setup menus appear on the display and provide a convenient way to change settings. From the main menu, settings are organized into eight submenus.



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Normally, if you're using a center speaker, the center channel sound is output by only the center speaker. (If you're not using a center speaker, the center channel sound will be distributed to the front left and right speakers to create a phantom center). This setting controls the front left, right, and center mix, allowing you to adjust the weight of the center channel sound. It can be adjusted from 0 to 7. The default value is 3.

Center Image 20°/40° Narrow: Select if the listening angle is 20 degrees. Middle: Select if the listening angle is 30 degrees (default). Wide: Select if the listening angle is 40 degrees. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the pseudo center channel. A setting of 0 produces the strongest sense of a center channel, which can be useful when your listening position is not central. Higher settings produce a more faithful stereo image. The default value is 2. 41 Setup--Continued Front 5.1ch With this setting, you can specify how your five surround speakers (front L/R, center, and surround L/R) are arranged to get the best effect from the Theater-Dimensional listening mode. Front speaker Center speaker Note: · The dB indicator flashes while the level is being adjusted. A/V Sync Surround speaker Yes: Select this if you've arranged your five speakers so that they are all at the front. No: Select this if you're using the normal arrangement for five surround sound speakers (default). Note: · This setting is available only when the Speaker Configuration settings Center and Surround are set to None (see page 39). Source Setup This section explains items on the Source Setup menu. Items can be set individually for each input selector.

IntelliVol (IntelliVolume) When using your Blu-ray/DVD player/recorder's progressive scanning function, you may find that the picture and sound are out of sync. With the A/V Sync setting, you can correct this by applying a delay to the audio signal. The delay can be set from 0 to 100 milliseconds (msec) in 10 millisecond steps. The default value is 0. Use the Left and Right [J/] buttons to set the delay. For components that support Lip Sync, a corrective delay time is applied by the Lip Sync function (see page 43). Note: · A/V Sync is disabled when the Direct listening mode is used with an analog input source. M.Optimizer (Music Optimizer) The Music Optimizer function enhances the sound quality of compressed music files. Use it with music files that use "lossy" compression, such as MP3.

Off: Music Optimizer off (default). On: With IntelliVolume, you can set the input level for each input selector individually. This is useful if one of your source components is louder or quieter than the others. Use the Left and Right [J/] buttons to set the level. If a component is noticeably louder than the others, use the Left [J] button to reduce its input level.

If it's noticeably quieter, use the Right [J] button to increase its input level. The input level can be adjusted from 12 dB to +12 dB in 1 dB steps. The default value is 0. Music Optimizer on. Note: · The Music Optimizer function only works with PCM digital audio input signals with a sampling rate below 48 kHz and analog audio input signals.

The Music Optimizer is disabled when the Direct listening mode is selected. 42 Setup--Continued Volume Setup This section explains items on the Volume Setup menu. MaxVolume With this setting, you can limit the maximum volume. The Maximum Volume range is Off, 79 to 30. The default value is Off. Pon Vol (Power on Volume) · When the Audio TV Out setting is set to On, or TV Control is set to On, and you're listening through your TV's speakers (see page 19), if you turn up the volume on the HTX-22HDX, the sound will be output by the HTX-22HDX's speakers. To stop the HTX-22HDX's speakers producing sound, change the settings, change your TV's settings, or turn down the HTX-22HDX's volume. Lip Sync This setting determines what the volume will be each time the HTX-22HDX is turned on. The range is Last, Min, 1 to 79, Max. The default value is Last.

To use the same volume level as when the HTX-22HDX was last turned off, select Last. Note: · The Power On Volume setting cannot be set higher than the Maximum Volume setting. HDMI Setup This section explains items on the HDMI Setup menu. Audio TV Out The Lip Sync function can automatically synchronize HDMI audio and video that's gotten out of sync due to the complex digital video processing being performed by your HDMI-compatible TV. With HDMI Lip Sync, the audio delay required to synchronize the audio and video is calculated and applied automatically by the HTX-22HDX. Disable: HDMI lip sync disabled (default). Enable: This setting determines whether audio received by an HDMI input is output by the HDMI OUT. You may want to change this setting to On if your TV is connected to the HDMI OUT and you want to listen to audio from an HDMI component through your TV's speakers instead of the HTX-22HDX's speakers. Normally, this should be set to Off. Off: HDMI lip sync enabled.

Notes: · This function works only if your HDMI-compatible TV supports HDMI Lip Sync. · You can check the amount of delay being applied by the HDMI Lip Sync function on the A/V Sync screen (see page 43). HDMI control This function allows -compatible components connected via to be controlled with the HTX-22HDX. Off: HDMI audio is not output (default). On: disabled (default).

On: HDMI audio is output. Notes: · If On is selected and the signal can be output by the TV, the HTX-22HDX's speakers will output no sound. · When TV Control is set to On, this setting is set to Auto. · With some TVs and input signals, no sound may be output even if On is selected. enabled.

Notes: · When you change this setting to On and close the Setup menu, the names of connected -compatible components and "RIHD On" are displayed on the HTX-22HDX. 43 Setup--Continued "Search..." "(name)" "RIHD On" If the HTX-22HDX cannot receive the name of a component, it will be displayed as "Player*" or "Recorder*", etc ("*" will be a number when there's two or more components). Select Off if a connected component is incompatible or you're not sure about its compatibility. If operation is unreliable when set to On, select Off instead. When the Audio TV Out setting is set to On, or TV Control is set to On, and you're listening through your TV's speakers (see page 19), if you turn up the volume on the HTX-22HDX, the sound will be output by the HTX-22HDX's speakers. To stop the HTX-22HDX's speakers producing sound, change the settings, change your TV's settings, or turn down the HTX-22HDX's volume.



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See "Using an -compatible TV, Player, or Recorder" on page 53.

Notes: · This setting can be changed only when the HDMI Control setting is set to On. · Auto is selected automatically when the HDMI Control setting is set to On. Power Control (Power Control) · · To link the power functions of compatible components connected via HDMI, select Enable. Off: Power Control disabled. On: · ARC (Audio Return Channel) With the Audio Return Channel (ARC), the audio output from an HDMI (version 1.4) TV can be sent to the HTX-22HDX via its HDMI OUT. To use ARC, your TV must support ARC, and you must select the ARC (TV) input on the HTX-22HDX. Off: ARC off. Select this if your TV doesn't support ARC. Auto: Your TV's audio output can be sent digitally to HTX-22HDX via its HDMI OUT (default).

The ARC (TV) input source is available only if your TV supports ARC and Auto is selected. When using ARC, to listen to the audio from your TV through the HTX-22HDX, use the input selector to select ARC (TV). If your TV is set to an input other than HDMI, ARC (TV) will be selected automatically. Power Control enabled (default). Notes: · The Power Control setting can be set only when the HDMI control setting is set to On.

· HDMI power control only works with -compatible components that support it and may not work properly with some components due to their settings or compatibility. · When set to On, the HTX-22HDX consumes more power when on Standby. · When set to On, and the HTX-22HDX is on Standby, the HDMI Thru indicator lights up orange when audio and video received by an HDMI input is being output as it is by the HDMI OUT. · Standby power consumption will increase during HDMI pass through. However, power consumption is reduced in the following cases: 1.

When your TV is on Standby. 2. When you're watching TV. TV Ctrl (TV Control) Select On to control the HTX-22HDX from an -compatible TV connected via HDMI. Off: TV Control disabled. On: TV Control enabled (default). 44 Setup--Continued Notes: · Select Off if your TV is incompatible or you're not sure about its compatibility. · The TV Control setting can be set only when the above Control and Power Control settings are both set to On. Note: · After changing the Control, Power Control, or TV Control setting, be sure to turn all of your components off and then back on again. Refer to the instruction manuals for your other components.

Specifying the Digital Signal Format SETUP ENTER RETURN Auto Power Down With Auto Power Down, you can set the HTX-22HDX so that it automatically switches to Standby if there's no input signal or operation for about 2 hours. Off: Auto Power Down off. On: Auto Power Down on. On North American models, the default setting is Off. On other models, it's On. Note: · When Auto Power Down is set to On, even if an input signal is present, if the level of that input signal is very low, the HTX-22HDX may switch to Standby after about 2 hours. Normally, the HTX-22HDX detects the format of digital input signals automatically. However, if you experience either of the following issues when playing PCM or DTS sources, you can specify the signal format manually. · If the beginnings of tracks from a PCM source are cut off, try the PCM setting. · If noise is produced when fast forwarding or rewinding a DTS CD, try the DTS setting.

source 1 With a PCM or DTS input the [SETUP] selected, press and hold button for 3 seconds until "Fixed Mode: Auto" appears on the display. Auto" is 2 While "Fixed Mode:press the displayed (about 3 seconds), Left or Right []/[] button repeatedly to select: PCM, DTS, or Auto. PCM: Only 2-channel PCM format input signals will be heard. If the input signal is not PCM, the PCM indicator will flash and there will be no sound. DTS: Only DTS format input signals (excluding DTS-HD) will be heard.

If the input signal is not DTS, the DTS indicator will flash and there will be no sound. Auto (default): All digital input signals can be heard. 45 Troubleshooting If you have any trouble using the HTX-22HDX, look for a solution in this section. If you can't resolve the issue yourself, contact your Onkyo dealer. Before you contact your Onkyo dealer, try resetting the HTX-22HDX, as follows: To reset the HTX-22HDX to its factory defaults, turn it on and, while holding down the [LISTENING MODE] button, press the [ON/STANDBY] button.

"Clear" will appear on the display and the HTX-22HDX will enter Standby mode. Note that resetting the HTX-22HDX will delete all of your custom settings. · Make sure that the speaker cables are not shorting. · Check the digital audio output settings on the source component. On some game consoles, such as those that can play DVDs, the default setting is off. · With some DVD-Video discs, you need to select an audio format from a menu or with the AUDIO button on your Blu-ray/DVD player/recorder's remote controller. · If your turntable doesn't have a phono preamp built-in, you must connect one between it and the HTX-22HDX. · If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer and a phono preamp. · Check the speaker configuration (page 39). · If there's no sound from a Blu-ray/DVD player/recorder connected to an HDMI IN, check its output settings, and be sure to select a compatible audio format.

Only the front speakers produce sound Power Can't turn on the HTX-22HDX · Make sure that the power cord is plugged into the wall outlet properly. · Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it back in again. · When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound. · Check the Speaker Configuration (page 39). Only the center speaker produces sound Audio There's no sound or it's very quiet · Make sure you've selected the appropriate input (page 28). · Check the volume (page 28). The HTX-22HDX is designed for home theater enjoyment and has a wide volume range for precise adjustment. · Make sure that all audio connecting plugs are pushed in all the way (page 18). · Make sure that the cables are properly connected to the output jacks on the source component. · Make sure that the polarity of the speaker cables is correct, and that the bare wire is in contact with the metal part of each speaker terminal (page 16).

· If you use the Dolby Pro Logic II listening mode with a mono source, such as an AM radio station or mono TV program, the sound will be concentrated in the center speaker. · Check the Speaker Configuration (page 39). The center speaker produces no sound · When the Stereo or Mono listening mode is selected, the center speaker produces no sound.



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