Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
Precautions

1. **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 user-serviceable. 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.

4. **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.

   For models with [POWER] button, or with both [POWER] and [ON/STANDBY] buttons:

   Pressing the [POWER] button to select OFF 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.

   For models with [ON/STANDBY] button only:

   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.

5. **Preventing Hearing Loss**

   **Caution**
   Excessive sound pressure from earphones and headphones can cause hearing loss.

6. **Batteries and Heat Exposure**

   **Warning**
   Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

7. **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.

8. **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.

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.
• 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.

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.

Modèle pour les Canadiens

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:

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU’AU FOND.

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.

For European Models

IMPORTANT

The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must 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.

Declaration of Conformity

We, ONKYO EUROPE ELECTRONICS GmbHLIEGNITZERSTRASSE 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

ONKYO EUROPE ELECTRONICS GmbH
Supplied Accessories

Make sure you have the following accessories:

- Indoor FM antenna (page 19)
- AM loop antenna (page 19)
- Power cord (Taiwanese models) (page 19)
- Speaker cable labels (page 13)
- Speaker setup microphone (page 35)
- Remote controller (RC-837M) and two batteries (AA/R6)
  (Note for China: The battery for the remote controller is not supplied for this unit.)
- Quick Start Guide

* 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

![Remote controller and Batteries](image)

Batteries (AA/R6)

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.
- 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.

Aiming the remote controller

To use the remote controller, point it at the AV receiver’s remote control sensor, as shown below.

![Remote control sensor and AV receiver](image)

Remote control sensor

AV receiver

Approx. 16 ft. (5 m)

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.
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To reset the AV receiver to its factory defaults, turn it on and, while holding down CBL/SAT, press ON/STANDBY (➔ page 79).
Features

Amplifier

- 100 Watts/Channel @ 8 ohms (FTC)
- 160 Watts/Channel @ 6 ohms (IEC)
- 175 Watts/Channel @ 6 ohms (JEITA)
- Optimum Gain Volume Circuitry
- 3 Stage Inverted Darlington Amplifier Design

Processing

- THX Select2 Plus Certified
- Incorporates Qdeo™ technology for HDMI Video Upscaling (to 4K Compatible)
- Dolby Pro Logic IIz and Audyssey DSX™
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Direct Mode
- Pure Audio Mode (European, Australian and Asian models)
- Music Optimizer for Compressed Digital Music files
- 192 kHz/24-bit D/A Converters
- Powerful and Highly Accurate 32-bit Processing DSP
- Jitter Cleaning Circuit Technology

Connections

- 8 HDMI Inputs (1 on front panel) and 2 Outputs
- Onkyo RIHD for System Control
- 4 Digital Inputs (2 Optical/2 Coaxial)
- Component Video Switching (1 Input/1 Output)
- Banana Plug-Compatible Speaker Posts
  * In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited.
- Powered Zone 2
- Bi-Amping Capability for FL/FR with SBL/SBR
- Internet Radio Connectivity (SiriusXM Internet Radio/vTuner/Last.fm/Pandora/Rhapsody/Slacker/AUPEO!)
  * Available services may vary depending on the region.
- Network Capability for Streaming Audio Files
- 2 USB Inputs (Front/Rear) for Memory Devices and iPod®/iPhone® models (Enables Display of Album Artwork)
  * Only the front-panel USB input is compatible with iPod/iPhone.
- MHL-Enabled AUX Front Input

Miscellaneous

- 40 FM/AM Presets
- Audyssey 2EQ® to correct room acoustic problems
- Audyssey Dynamic EQ® for loudness correction
- Audyssey Dynamic Volume® to maintain optimal listening level and dynamic range
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (up to 800 ms)
- Auto Standby Function
- On-Screen Display via HDMI
- Preprogrammed R1-Compatible Remote
Front & Rear Panels

Front Panel

(North American and Taiwanese models)

1. ON/STANDBY button (20)
2. ZONE 2 and ZONE 3 buttons (46, 71)
3. Remote control sensor (5)
4. Display (9)
5. LISTENING MODE buttons (37)
6. DIMMER button (North American and Taiwanese models) (45)
7. MEMORY button (32)
8. TUNING MODE button (31)
9. SETUP button (50)
10. TUNING ▲/▼ (31), PRESET ◀/▶ (32), cursor and ENTER buttons
11. RETURN button
12. MASTER VOLUME control and indicator (23)
13. MUSIC OPTIMIZER button and indicator (North American and Taiwanese models) (46, 49)
14. PHONES jack (46)
15. AUX INPUT HDMI/MHL jack (16)
16. TONE and Tone Level buttons (48)
17. Input selector buttons (23)
18. DISPLAY button (45)
19. VIDEO jack (17)
20. USB port (17)
21. SETUP MIC jack (35)
22. HYBRID STANDBY indicator (51)
23. PURE AUDIO button and indicator (European, Australian and Asian models) (37)
24. RT/PTY/TP button (European, Australian and Asian models) (33)
For detailed information, see the pages in parentheses.

1. **Z2 (Zone 2) indicator (71)**
2. **Z3 (Zone 3) indicator (71)**
3. **3D indicator**
   - This lights when a 3D input signal is detected.
4. **Headphone indicator (46)**
5. **Play, Pause, and cursor indicators (25)**
6. **Listening mode and format indicators (37)**
7. **Audyssey indicator (34, 59)**
   - Audyssey DSX indicator (41)
   - Dynamic EQ indicator (59)
   - Dynamic Vol indicator (59)
8. **M.Opt indicator (46, 49)**
9. **Tuning indicators**
   - RDS indicator (excluding North American and Taiwanese models) (32)
   - AUTO indicator (31)
   - TUNED indicator (31)
   - FM STEREO indicator (31)
10. **MUTING indicator (46)**
11. **Input indicators (90)**
   - HDMI indicator (66)
   - DIGITAL indicator
12. **ARC indicator (66)**
13. **USB indicator (25, 26)**
14. **NET indicator (27 to 30, 68)**
15. **Message area**
16. **SLEEP indicator (45)**
17. **Channel/Unit indicators**
   - ch indicator
   - Hz indicator
   - m/ft indicator
   - dB indicator
18. **ASb indicator (67)**
Rear Panel

(North American, European, Australian and Asian models)

1. DIGITAL IN COAXIAL and OPTICAL jacks
2. COMPONENT VIDEO IN and OUT jacks
3. USB port
4. ETHERNET port
5. FM ANTENNA jack and AM ANTENNA terminal
6. HDMI IN and HDMI output (HDMI OUT MAIN and HDMI OUT SUB) jacks
7. SPEAKERS terminals (CENTER, FRONT, SURROUND, SURROUND BACK or FRONT HIGH, ZONE 2)
8. Power cord (North American, European, Australian and Asian models)
9. R1 REMOTE CONTROL jack

(Taiwanese models)

10. Composite video and analog audio jacks (BD/DVD IN, CBL/SAT IN, STB/DVR IN, GAME IN, PC IN, TV/CD IN)
11. MONITOR OUT V jack
12. SUBWOOFER PRE OUT jacks
13. ZONE 2/ZONE 3 LINE OUT jacks
14. AC INLET (Taiwanese models)

See “Connecting the AV Receiver” for connection (➔ pages 12 to 19).
Remote Controller

Controlling the AV Receiver

To control the AV receiver, press RECEIVER to select Receiver mode.
You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player, and other components.
See “Entering Remote Control Codes” for more details (➔ page 75).

For detailed information, see the pages in parentheses.
1. ○ RECEIVER button (20)
2. REMOTE MODE/INPUT SELECTOR buttons (23)
3. ▲/▼/◄/► and ENTER buttons
4. Q SETUP button (47)
5. Listening Mode buttons (37)
6. DIMMER button (45)
7. DISPLAY button (45)
8. MUTING button (46)
9. VOL ▲/▼ button (23)
10. RETURN button
11. HOME button (44)
12. SLEEP button (45)

Controlling the tuner
To control the AV receiver’s tuner, press AM or FM (or RECEIVER).
1. ▲/▼ buttons (31)
2. D.TUN button (31)
3. DISPLAY button
4. CH +/- button (32)
5. Number buttons (31)
Connecting the AV Receiver

Connecting Your Speakers

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 34) or manually (➔ page 54).

<table>
<thead>
<tr>
<th>Number of speakers</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front speakers</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Center speaker</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Surround speakers</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Surround back speaker<em>1</em>2</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surround back speakers*2</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front high speakers*2</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 If you’re using only one surround back speaker, connect it to the SURROUND BACK or FRONT HIGH L terminals.

*2 Front high and surround back speakers cannot be used at the same time.

Connecting the Speaker Cables

The following illustration shows how to connect the speakers 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.

Tip

- You can specify whether surround back or front high speakers are connected in the “Speaker Configuration” menu (➔ page 54) or during Audyssey 2EQ® Room Correction and Speaker Setup (➔ page 34).

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.

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.

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.

Connections
Attaching the Speaker Cable Labels

The speaker terminals are color-coded for identification purpose.

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front left, Front high left, Zone 2 left</td>
<td>White</td>
</tr>
<tr>
<td>Front right, Front high right, Zone 2 right</td>
<td>Red</td>
</tr>
<tr>
<td>Center</td>
<td>Green</td>
</tr>
<tr>
<td>Surround left</td>
<td>Blue</td>
</tr>
<tr>
<td>Surround right</td>
<td>Gray</td>
</tr>
<tr>
<td>Surround back left</td>
<td>Brown</td>
</tr>
<tr>
<td>Surround back right</td>
<td>Tan</td>
</tr>
</tbody>
</table>

The supplied speaker cable labels are also color-coded and you should attach them to the positive (+) side of each speaker cable in accordance with the table above. Then all you need to do is to match the color of each label to the corresponding speaker terminal.

Speaker Connection Precautions

Read the following before connecting your speakers:

- **(North American and Taiwanese models)** You can connect speakers with an impedance of between 6 and 16 ohms. If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in amp protection circuit may be activated.

- **(European, Australian and Asian models)** You can connect speakers with an impedance of between 4 and 16 ohms. If the impedance of any of the connected speakers is 4 ohms or more, but less than 6 ohms, be sure to set the minimum speaker impedance to “4ohms” (page 54).

If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in protection circuit may be activated.

- Disconnect the power cord from the wall outlet before making any connections.
- Read the instructions supplied with your speakers.
- Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals only to positive (+) terminals, and negative (−) terminals only to 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 AV receiver.
- Make sure the metal core of the wire does not have contact with the AV receiver’s rear panel. Doing so may damage the AV receiver.
- Don’t connect more than one cable to each speaker terminal. Doing so may damage the AV receiver.
- Don’t connect one speaker to several terminals.

Don’t connect more than one cable to each speaker terminal. Doing so may damage the AV receiver.
Using Dipole Speakers

You can use dipole speakers for the surround and surround back speakers. Dipole speakers output the same sound in two directions.

Dipole speakers typically have an arrow printed on them to indicate how they should be positioned. The surround dipole speakers (a) should be positioned so that their arrows point toward the TV/screen, while the surround back dipole speakers (b) should be positioned so that their arrows point toward each other, as shown.

Using Powered Subwoofers

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.

You can connect the powered subwoofer with two SUBWOOFER PRE OUT jacks respectively. The same signal is output from each jack.

Tip

- If your subwoofer is unpowered and you’re using an external amplifier, connect the subwoofer pre out jack to an input on the amplifier.

Bi-amping the Front Speakers

Bi-amping provides improved bass and treble performance. When bi-amping is used, the AV receiver is able to drive up to a 5.1 speaker system in the main room.

Once you’ve completed the bi-amping connections as shown and turned on the AV receiver, you must set the speaker setting to enable bi-amping (➔ page 54).
Connecting AV components

Before making any AV connections, read the manuals supplied with your AV components.

Don’t connect the power cord until you’ve completed and double-checked all AV connections.

Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).

To prevent interference, keep audio and video cables away from power cords and speaker cables.

AV Cables and Jacks

■ HDMI
HDMI connections can carry digital video and audio.

■ Component video
Component video separates the luminance (Y) and color difference signals (Pb, Pr), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently).

■ Composite video
Composite video is commonly used on TVs, DVDs, and other video equipment.

■ Optical digital audio
Optical digital connections allow you to enjoy digital sound such as PCM, Dolby Digital or DTS. The audio quality is the same as coaxial.

■ Coaxial digital audio
Coaxial digital connections allow you to enjoy digital sound such as PCM, Dolby Digital or DTS. The audio quality is the same as optical.

■ Analog audio (RCA)
Analog audio connections (RCA) carry analog audio.

Note
• The AV receiver does not support SCART plugs.
• The AV receiver’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.

*1 For PCM signals, the supported sampling rates are 32/44.1/48/88.2/96 kHz. With HDMI connections, 176.4 and 192 kHz are also supported.
* If your TV doesn’t support Audio Return Channel (ARC), you need to connect an optical digital cable together with the HDMI cable to the AV receiver.

* When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off.

Connect your components to the appropriate jacks. The default input assignments are shown below.

✔: Assignment can be changed (→ page 52).

<table>
<thead>
<tr>
<th>Jack</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN1</td>
<td>Blu-ray Disc/DVD player</td>
</tr>
<tr>
<td>IN2</td>
<td>Satellite/cable set-top box, etc.</td>
</tr>
<tr>
<td>IN3</td>
<td>Set top box/Digital video recorder, etc.</td>
</tr>
<tr>
<td>IN4</td>
<td>Game console</td>
</tr>
<tr>
<td>IN5</td>
<td>Personal computer</td>
</tr>
<tr>
<td>IN6</td>
<td>Other components</td>
</tr>
<tr>
<td>IN7</td>
<td>Other components</td>
</tr>
<tr>
<td>Front</td>
<td>Camcorder, etc.</td>
</tr>
<tr>
<td>OUT MAIN</td>
<td>TV</td>
</tr>
<tr>
<td>OUT SUB</td>
<td>Projector, etc.</td>
</tr>
</tbody>
</table>

See also:
• “Connection Tips and Video Signal Path” (→ page 89)
• “Using an RIHD-compatible TV, Player, or Recorder” (→ page 92)
• “About HDMI” (→ page 94)

Tip
• To listen to the audio of a component connected via HDMI through your TV’s speakers, enable “HDMI Through” (→ page 66) and set the AV receiver to standby mode.

Note
• In the case of Blu-ray Disc/DVD players, if no sound is output despite following the above-mentioned procedure, set your Blu-ray Disc/DVD player’s HDMI audio settings to PCM.

Audio Return Channel (ARC) function
The Audio Return Channel (ARC) function enables an HDMI capable TV to send the audio stream to HDMI OUT MAIN on the AV receiver.

• This function can be used when:
  – Your TV is ARC capable, and
  – The TV/CD input selector is selected, and
  – “HDMI Control(RIHD)” is set to “On” (→ page 65), and
  – “Audio Return Channel” is set to “Auto” (→ page 66).

MHL (Mobile High-Definition Link)
With its support for MHL (Mobile High-Definition Link), the AUX (Front) input allows you to deliver high-definition video from a connected mobile device.
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 89).

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 89).

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV receiver’s display when changing settings.

✔: Assignment can be changed (➔ page 53).

<table>
<thead>
<tr>
<th>No.</th>
<th>Jack/Port</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USB, VIDEO*1</td>
<td>iPod/iPhone (video playback)</td>
</tr>
<tr>
<td>2</td>
<td>USB<em>2</em>3</td>
<td>iPod/iPhone, MP3 player, USB flash drive</td>
</tr>
<tr>
<td>3</td>
<td>DIGITAL IN</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>COMPONENT VIDEO</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ETHERNET</td>
<td>Router</td>
</tr>
<tr>
<td>6</td>
<td>MONITOR OUT</td>
<td>TV, projector, etc.</td>
</tr>
<tr>
<td>7</td>
<td>BD/DVD IN</td>
<td>Blu-ray Disc/DVD player</td>
</tr>
<tr>
<td>8</td>
<td>CBL/SAT IN</td>
<td>Satellite/cable set-top box, RI dock, etc.</td>
</tr>
<tr>
<td>9</td>
<td>STB/DVR IN</td>
<td>Set top box/Digital video recorder, etc.</td>
</tr>
<tr>
<td>10</td>
<td>GAME IN</td>
<td>Game console, RI dock</td>
</tr>
<tr>
<td>11</td>
<td>PC IN</td>
<td>Personal computer</td>
</tr>
<tr>
<td>12</td>
<td>TV/CD IN</td>
<td>TV, CD player, cassette tape deck, MD, CD-R, Turntable*4, RI dock</td>
</tr>
</tbody>
</table>

Note

*1 When the USB input is selected, you can input video signals from the VIDEO jack. Video signals input from VIDEO will be output from the MONITOR OUT and HDMI output jacks.
*2 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.
*3 Only the front-panel USB input is compatible with iPod/iPhone.
*4 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.

- With connection 3, you can enjoy Dolby Digital and DTS. (To listen in Zone 2/3 as well, use 3 and 6.)
- With connection 6, you can enjoy audio from external components while you are in Zone 2/3.
- With connection 6, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo.
With **RI** (Remote Interactive), you can use the following special functions:

### System On/Auto Power On
When you start playback on a component connected via **RI**, 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 **RI**, 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 **RI**-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 76).

---

### Note
- Use only **RI** cables for **RI** connections. **RI** cables are supplied with Onkyo components.
- Some components have two **RI** jacks. You can connect either one to the AV receiver. The other jack is for connecting additional **RI**-capable components.
- Connect only Onkyo components to **RI** jacks. Connecting other manufacturer’s components may cause a malfunction.
- Some components may not support all **RI** functions. Refer to the manuals supplied with your Onkyo components.
- While Zone 2/3 is on, the System On/Auto Power On and Direct Change **RI** functions do not work.
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.

**Note**
- 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 Antennas**

Connect the supplied power cord to the AV receiver’s AC INLET.

1. (Taiwanese models)
   - Connect the supplied power cord to the AV receiver’s AC INLET.

2. Plug the power cord into an AC wall outlet.

**Connecting the Power Cord**

- 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.
- Do not use a power cord other than the one supplied with the AV receiver. The supplied power cord is designed exclusively for use with the AV receiver and should not be used with any other equipment.
- Never disconnect the power cord from the AV receiver 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 AV receiver.
Turning On/Off the AV Receiver

Turning On

1. Press \( \text{ON/STANDBY} \) on the front panel.
   or
   Press \( \text{RECEIVER} \) followed by \( \text{RECEIVER} \) on the remote controller.
   The AV receiver comes on and its display lights.

Turning Off

1. Press \( \text{ON/STANDBY} \) on the front panel.
   or
   Press \( \text{RECEIVER} \) followed by \( \text{RECEIVER} \) 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

- The HYBRID STANDBY indicator may light depending on the status of settings (\( \rightarrow \) page 51).
- For details on power management settings, see “Auto Standby” (\( \rightarrow \) page 67).

If the “Firmware Update Available” window appears.

When a new version of the firmware is available, the notification window “Firmware Update Available” pops up. This notification only appears when the AV receiver is connected to your home network (\( \rightarrow \) page 95). To perform the firmware update, follow the instructions on screen.

Use \( \uparrow/\downarrow \) and ENTER on the AV receiver or remote controller to select one of the options.

- **Update Now**: Starts the firmware update. Refer to “Firmware Update” (\( \rightarrow \) page 85).
- **Remind me Later**: The update notification will pop up again the next time you turn the AV receiver on.
- **Never Remind me**: Disables the automatic update notification.

Tip

- The update notification window can be enabled or disabled in “Update Notice” (\( \rightarrow \) page 68).
Initial Setup

This section explains the settings that we recommend you to make before using the AV receiver for the very first time. A setup wizard is launched upon first-time use to let you perform those settings.

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

Selecting the Language for the Onscreen Setup Menus

This step determines the language used for the onscreen setup menus. See “Language” in “OSD Setup” (⇒ page 65).

Tip

- Pressing HOME will close the setup wizard. To restart the initial setup, select “Initial Setup” in the “Hardware Setup” menu (⇒ page 68).

After selecting the language for on-screen setup menus, a welcome screen is displayed.

1st Step : Audyssey 2EQ: Auto Setup
2nd Step : Source Connection
3rd Step : Remote Mode Setup
4th Step : Network Connection

Welcome to initial setup. Have you connected all the speakers and devices? Before starting, please connect speakers and sources. Now, would you like to start initial setup?

1 Use ▲/▼ on the AV receiver or remote controller to select one of the following options, and then press ENTER.

- Yes:
  Continues to “Audyssey 2EQ: Auto Setup”.

- No:
  Skips the settings and terminates the initial setup. The setup wizard goes to “Terminating the Initial Setup” (⇒ page 22). You can always restart the initial setup by selecting “Initial Setup” in the “Hardware Setup” menu (⇒ page 68).

Audyssey 2EQ: Auto Setup

This step performs the automatic speaker setup.

1 Use ▲/▼ to select one of the following options, and then press ENTER.

- Do it Now:
  The automatic speaker setup is performed following instructions on screen. Refer to step 2 of “Using the Automatic Speaker Setup” (⇒ page 34). When this setting is complete, the setup wizard continues to “Source Connection”.

- Do it Later:
  Skips this setting. Press ENTER and continue to “Source Connection”.

Tip

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.
Source Connection

This step checks the connection of source components.

1. Use ▲/▼ to select one of the following options, and then press ENTER.
   - Yes, Continue: Performs the checkings.
   - No, Skip: Skips this step and continues to “Remote Mode Setup”.

2. Select the input selector for which you want to check the connection and press ENTER.
   The picture of the corresponding source should appear on screen with a verification prompt.

3. When prompted, use ▲/▼ to select one of the following options and then press ENTER.
   - Yes: Confirms that the source is properly displayed.
   - No: Displays an error report. Follow the troubleshooting instructions and recheck the source.

4. Use ▲/▼ to select one of the following options, and then press ENTER.
   - Yes: Returns to step 2.
   - No, Done Checking: The setup wizard continues to “Remote Mode Setup”.

Remote Mode Setup

With this step, you can enter remote control codes for the components you want to operate.

1. Use ▲/▼ to select one of the following options, and then press ENTER.
   - Yes: Performs the remote control code input. Refer to step 5 of “Looking up for Remote Control Codes” (➔ page 74).
   - No, Skip: Skips this step and continues to “Network Connection”.

2. When you’re finished, select one of the following options and press ENTER.
   - Yes, Done: The setup wizard continues to “Network Connection”.
   - No, not yet: You can enter other remote control codes.

Network Connection

This step checks your network connection.

1. Use ▲/▼ to select one of the following options, and then press ENTER.
   - Yes: Performs the checking.
   - No, Skip: Skips this step and terminates the initial setup.

   Note

   • If you use both wired and wireless network connections, the wireless will take priority.
   For further details, see the instruction manual provided with your wireless device.

2. Follow the instructions on screen to perform the network checking.
   The checking is complete when the message “Successfully connected.” appears at the middle of the screen. Press ENTER to terminate the initial setup.

3. If an error message appears, select one of the following options and press ENTER.
   - Retry: Performs the checking again.
   - No, Do it Later: Skips this step and terminates the initial setup. The setup wizard goes to “Terminating the Initial Setup”.

Terminating the Initial Setup

This step ends the initial setup process.

1. Press ENTER.
   To restart the initial setup, select “Initial Setup” in the “Hardware Setup” menu (➔ page 68).
Playback

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. 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.

---

### Playing the Connected Component

#### Operating with the remote controller

1. Press RECEIVER followed by an INPUT SELECTOR button.
2. Start playback on the source component.
3. To adjust the volume, use VOL ↑/↓.
4. Select a listening mode and enjoy!

---

#### Operating on the AV receiver

1. Use the input selector buttons to select the input source.
2. Start playback on the source component.
3. To adjust the volume, use the MASTER VOLUME control.
4. Select a listening mode and enjoy!

---

#### Screen saver

If there is no video signal on the current input source and no operation for a specific time (three minutes by default), a screen saver automatically comes on.

**Tip**

- The time until the screen saver activates itself can be changed in the “Screen Saver” setting (→ page 65).
- The screen will return to its previous state if the AV receiver is operated.

---

See also:
- “Playing an iPod/iPhone via USB” (→ page 25)
- “Playing a USB Device” (→ page 26)
- “Listening to vTuner Internet Radio” (→ page 27)
- “Registering Other Internet Radio” (→ page 28)
- “Playing Music Files on a Server” (→ page 29)
- “Remote Playback” (→ page 30)
- “Listening to AM/FM Radio” (→ page 31)
- “iPod/iPhone Playback via Onkyo Dock” (→ page 72)
- “Controlling Other Components” (→ page 74)

---

See also:
- “Using the Listening Modes” (→ page 37)
### Controlling Contents of USB or Network Devices

- **TOP MENU**
  - This button displays the top menu for each media or service.

- **△/▽ and ENTER**
  - These buttons navigate through the menus.

- **@student menu**
  - This button cycles through pages.

#### PLAYLIST
- **△/▽**
  - In Standard Mode (iPod/iPhone), this button selects playlists.

- **▶**
  - This button starts playback.

- **◀◀**
  - This button selects the beginning of the current song. Pressing this button twice selects the previous song.

- **◁◁**
  - This button fast-reverses the current song.

- **II**
  - This button pauses playback.

- **SEARCH**
  - You can toggle between the playback screen and the list screen during playback.

- **DISPLAY**
  - This button switches between song information during playback.
  - Press this button while the list screen is displayed to return to the playback screen.

- **ALBUM +/-**
  - In Standard Mode (iPod/iPhone), this button selects albums.

- **MENU**
  - This button returns to top menu of the Internet Radio service.

- **RETURN**
  - This button returns to the previous menu.

- **▶▶**
  - This button fast-forwards the current song.

- **▶▶▶**
  - This button selects the next song.

- **■**
  - This button stops playback.

- **MODE**
  - You can switch between Standard Mode and Extended Mode during iPod/iPhone playback.

- **RANDOM**
  - This button performs random playback.

- **REPEAT**
  - Press this button repeatedly to cycle through the repeat modes.

#### Tip
- See “Controlling Other Components” about the operation of other components (page 74).

#### Note
- The buttons you can use will differ depending on the devices and media used for playback.
Understanding Icons on the Display

This section describes icons that appear on the AV receiver’s display during media playback.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📑</td>
<td>Folder</td>
</tr>
<tr>
<td>🎵</td>
<td>Track</td>
</tr>
<tr>
<td>🎆</td>
<td>Playback</td>
</tr>
<tr>
<td>⏯</td>
<td>Pause</td>
</tr>
<tr>
<td>⚛</td>
<td>Fast Forward</td>
</tr>
<tr>
<td>⚜</td>
<td>Fast Reverse</td>
</tr>
<tr>
<td>🎤</td>
<td>Artist</td>
</tr>
<tr>
<td>🎼</td>
<td>Album</td>
</tr>
<tr>
<td>🔁</td>
<td>Repeat One Track</td>
</tr>
<tr>
<td>🔂</td>
<td>Repeat Folder (USB Device)</td>
</tr>
<tr>
<td>🔄</td>
<td>Repeat</td>
</tr>
<tr>
<td>🔃</td>
<td>Shuffle</td>
</tr>
<tr>
<td>🔄</td>
<td>Shuffle Album (iPod/iPhone)</td>
</tr>
</tbody>
</table>

Playing an iPod/iPhone via USB

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

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 nano (2nd, 3rd, 4th, 5th and 6th generation), iPhone 4S, iPhone 4, iPhone 3GS, iPhone 3G, iPhone

1 Press USB repeatedly to select the “USB(Front)” input.

Tip
• The same operation can be done by selecting “USB” in the Home menu.

2 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...” appears on the AV receiver’s display.

The USB indicator lights. It will flash if the AV receiver cannot read the iPod/iPhone.

Tip
• When connecting your iPod/iPhone with a USB cable, we recommend you use an official USB cable from Apple Inc.

3 Press MODE repeatedly to switch to Extended Mode (Music) or Extended Mode (Video).

A list of your iPod/iPhone model’s contents appears.

Tip
• If you want to operate using the iPod/iPhone or the remote controller, press MODE repeatedly to switch to Standard mode.
• When you disconnect the iPod/iPhone, the AV receiver remembers the current 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.

4 Use ▲▼ to select a folder, and then press ENTER to open it.

Tip
• You can also use the ▲▼, ENTER and TUNING MODE buttons on the front panel. TUNING MODE allows you to switch modes.

5 Use ▲▼ to select a music/video file, and press ENTER or ► to start playback.

Note
• While the message “Connecting...” appears on the AV receiver’s display, do not disconnect the USB cable supplied with your iPod/iPhone or the USB device from the USB port.
• If you connect an iPod or iPhone to the USB port, no sound will be output from the headphones jack.
Extended Mode (Music) Control

The music content information is displayed (lists are displayed), and you can control the music content while looking at the screen.

Top screen list:
Playlists, Artists, Albums, Genres, Songs, Composers, Shuffle Songs, Now Playing.

*Note*
- In this mode, video contents are not displayed, even if they are input from the VIDEO jack on the AV receiver’s front panel.

Extended Mode (Video) control

The video content information is displayed (lists are displayed), and you can control the video content while looking at the screen.

Top screen list:
Movies, Music Videos, TV Shows, Video Podcasts, Rentals.

*Note*
- To view the video contents of your iPod/iPhone, connect it to the USB port and VIDEO jack on the AV receiver’s front panel.
- Depending on your iPod/iPhone model and generation, the displayed items may vary and the support for Extended Mode (Video) is not guaranteed.

Standard Mode Control

The content information is not displayed, but can be operated using the iPod/iPhone or the remote controller.

---

### Playing a USB Device

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

This section explains how to play music files from a USB device (e.g., USB flash drives and MP3 players).

See also:
- “Network/USB Features” (➔ page 95).

1. Press USB repeatedly to select the “USB(Front)” or “USB(Rear)” input.

2. 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.

3. Press ENTER.
   A list of the device’s contents appears. To open a folder, use ▲/▼ to select it, and then press ENTER.

4. Use ▲/▼ to select a music file, and press ENTER or ► to start playback.

*Note*
- While the message “Connecting...” appears on the AV receiver’s display, do not disconnect the USB cable supplied with your iPod/iPhone or the USB device from the USB port.
The vTuner Internet Radio Service is a portal site featuring radio stations from all over the world. You can search for stations by categories such as genre or location. The AV receiver is preinstalled with this service.

**Listening to vTuner Internet Radio**

You need to connect the AV receiver to your home network (➔ page 95). The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

1. **Press NET.**
   The network service screen appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.
   
   **Tip**
   • The same operation can be done by selecting “Network Service” in the Home menu.

2. **Use ▲/▼/◄/► to select “vTuner Internet Radio” and then press ENTER.**

3. **Use ▲/▼ to select a program and then press ENTER.**
   Playback starts.

   **Tip**
   • You can find stations similar to the one being played.
   During playback, press MENU on the remote controller, select “Stations like this” and press ENTER.

**Adding vTuner Internet Radio Stations to Favorites**

There are two ways you can register specific Internet radio stations (programs) from the vTuner Internet Radio.

**Adding to My Favorites**

The selected program will be added to “My Favorites” on the network service screen, which appears when pressing NET on the remote controller.

1. Press MENU with the station selected or while a station is playing.
2. Use ▲/▼ to select “Add to My Favorites”, and press ENTER.
3. Use ▲/▼/◄/► to select “OK”, and press ENTER.

**Adding to vTuner Internet Radio’s Favorites**

Select “vTuner Internet Radio” and press ENTER to display the “Favorites” folder that appears on the same screen as “Stations By Genre”, “Stations By Location”, etc. This is where your favorite Internet radio bookmarks will be stored.

To register your favorite stations using a personal computer, you need to connect your PC to the same network as the AV receiver. Enter the ID# (MAC address) of your unit on the http://onkyo.vtuner.com/. You can then register your favorite radio programs. The ID# is shown at the bottom of the “vTuner Internet Radio” top menu, and the AV receiver’s MAC address is shown on “Network” of the Setup menu (➔ page 67).
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.

To listen to other Internet radio stations, you must register your station in “My Favorites” of the network service screen, as described below.

### Registering Other Internet Radio

You need to connect the AV receiver to your home network (➔ page 95). The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

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.

To listen to other Internet radio stations, you must register your station in “My Favorites” of the network service screen, as described below.

#### Registering Other Internet Radio

1. Select “Network” on the Setup menu to verify your IP address (➔ page 68).
   Take a note of the IP address.
2. On your computer, start your web browser.
3. Enter the AV receiver’s IP address in the browser’s Internet address (URL) field.
   If you are using Internet Explorer®, you can also enter the URL by selecting “Open...” on the “File” menu.
   Information on the AV receiver is then shown on your Internet browser (Web Setup).
4. Click on the “My Favorites” tab, and enter the Internet radio station’s name and URL.
5. Click “Save” to save the Internet radio station.
   The Internet radio station is then added to “My Favorites”. To play the registered station, press NET, and then select “My Favorites” on the network service screen. A list of registered Internet radio stations appears. Select the one that you saved and press ENTER.

### Tip

- If you want to add a new station directly from “My Favorites”, select an empty slot in the list and press MENU. Then, select “Create New Station” and press ENTER.
- Pressing ENTER again will display the keyboard screen. Use that keyboard to enter the station’s name and URL respectively, and then press ENTER.
- If you want to delete a station saved in “My Favorites”, press MENU with the station selected or while the station is playing. Then, use ▲/▼ to select “Delete from My Favorites” and press ENTER. You can also delete stations from the Web Setup.
- If you want to rename a station, select the desired station and press MENU. Then, use ▲/▼ to select “Rename this station” and press ENTER.
- You can save up to 40 Internet radio stations.

### Changing the Icon Layout on the Network Service Screen

The layout of icons can be customized by switching their positions on the network service screen.

1. Press NET.
   The network service screen appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.

2. Press MODE/D (blue) on the remote controller.
3. Use ▲/▼/◄/► to select an icon to move, and then press ENTER.
4. Use ▲/▼/◄/► to select another icon as the destination, and then press ENTER.

   The icons switch positions and the message “Completed!” appears.

   If you press RETURN, the “Custom Mode” process will be cancelled or it will go back one step.
This section explains how to play music files on a computer or media server through the AV receiver (Server Playback).

1 Start your computer or media server.

2 Press NET.
The network service screen appears. The NET indicator lights. If it flashes, confirm the network connection.

   **Tip**
   - The same operation can be done by selecting “Network Service” in the Home menu.

3 Use \(\text{△}/\text{▼}/\text{◄}/\text{►}\) to select “dnla”, and press ENTER.

   **Tip**
   - To go back to the previous screen, press RETURN.

4 Use \(\text{△}/\text{▼}\) 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.

5 Use \(\text{▲}/\text{▼}\) to select an item, and then press ENTER or \(\text{◄} \) to start playback.

   **Note**
   - Depending on the media server, \(\text{◄} / \text{▶} / \text{■} / \text{II}\) 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.

---

### 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.

**1** Start Windows Media Player 11.

**2** On the “Library” menu, select “Media Sharing”. The “Media Sharing” dialog box appears.

**3** Select the “Share my media” check box, and then click “OK”. A list of the supported devices appears.

**4** Select the AV receiver in the list, and then click “Allow”. The corresponding icon will be checked.

**5** 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.
Remote Playback

You need to connect the AV receiver to your home network (⇒ page 95). The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

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.

Windows Media Player 12 Setup

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.

1 Start Windows Media Player 12.
2 On the “Stream” menu, select “Turn on media streaming”.
   A dialog box appears.
   Tip
   • If the media streaming is already activated, clicking on “More streaming options...” in the “Stream” menu will display a list of the playback devices connected to the network. You can skip step 3.
3 Move your cursor and click on “Turn on media streaming”.
   A list of media server appears. Wording may vary slightly depending on the network location.
4 On the “Media streaming options”, select the AV receiver and confirm that it is set to “Allow”.
5 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.
   Tip
   • On the “Stream” menu, confirm that “Allow remote control of my Player...” is checked.

Using Remote Playback

1 Turn on the AV receiver.
2 Start Windows Media Player 12.
   To enable remote playback, you must first configure Windows Media Player 12.
3 On Windows Media Player 12, right-click on a music file.
   The right-click menu appears.
   Tip
   • For selecting another media server, select the desired media server from the “Other Libraries” menu on Windows Media Player 12.
4 Select the AV receiver in “Remote playback”.
   The “Play to” window appears and playback on the AV receiver starts. Operations during remote playback can be made from the “Play to” window of Windows 7 on your personal computer.
   A playback screen will be displayed on the connected TV.

5 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. Refer to step 3 of “Registering Other Internet Radio” for details (⇒ page 28).
   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.

Note
• Remote playback cannot be used in any of the following cases:
  – Network services are being used.
  – Contents are being played from a USB device or iPod/iPhone.
  – Zones are turned on.
Listening to AM/FM Radio

This section describes the procedure of using the buttons on the front panel, unless otherwise specified.

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 65).

1 Press AM or FM to select either “AM” or “FM”.
   In this example, FM has been selected.

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FM 87.5 MHz</td>
</tr>
</tbody>
</table>

   (Actual display depends on the country.)

Tuning into Radio Stations

■ Auto tuning mode

1 Press TUNING MODE so that the AUTO indicator lights on the AV receiver’s display.
2 Press TUNING ▲/▼.
   Searching stops when a station is found.

When tuned into a station, the TUNED indicator lights. When tuned into a stereo FM station, the FM STEREO indicator lights as shown.

   ![TUNED Indicator](image)

   ![FM STEREO Indicator](image)

   ![TUNED AUTO Indicator](image)

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.

   ![FM Weak Signal Indicator](image)

   (Actual display depends on the country.)

■ Manual tuning mode

In manual tuning mode, FM stations will be in mono.

1 Press TUNING MODE so that the AUTO indicator goes off on the AV receiver’s display.
2 Press and hold TUNING ▲/▼.
   The frequency stops changing when you release the button.
   Press the buttons repeatedly to change the frequency one step at a time.

■ Tuning into stations by frequency

You can tune into AM and FM stations directly by entering the appropriate frequency.

1 On the remote controller, press AM or FM to select “AM” or “FM”, followed by D.TUN.

   ![D.TUN Indicator](image)

   (Actual display depends on the country.)

2 Within 8 seconds, use the number buttons to enter the frequency of the radio station.
   For example, to tune to 87.5 (FM), press 8, 7, 5.
   If you have entered the wrong number, you can retry after 8 seconds.
Presetting AM/FM Stations

You can store a combination of up to 40 of your favorite AM/FM radio stations as presets.

1 Tune into the AM/FM station that you want to store as a preset.
   See the previous section.
2 Press MEMORY.
   The preset number flashes.

   AM 522kHz
   (Actual display depends on the country.)

3 While the preset number is flashing (about 8 seconds), use PRESET +/- to select a preset from 1 through 40.
4 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.

Selecting Presets

1 To select a preset, use PRESET +/- 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.

Deleting Presets

1 Select the preset that you want to delete.
   See the previous section.
2 While holding down MEMORY, press TUNING MODE.
   The preset is deleted and its number disappears from the AV receiver’s display.

Using RDS (excluding North American and Taiwanese 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.

What is RDS?

RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.).

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 AV receiver’s display as described in the next section.

PTY (Program Type)
This allows you to search for RDS radio stations by type (➔ page 33).

TP (Traffic Program)
This allows you to search for RDS radio stations that broadcast traffic information (➔ page 33).

To be continued
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.

Displaying Radio Text (RT)

1 Press RT/PTY/TP once.
   The RT information scrolls across the AV receiver’s display.

   Note
   - The message “Waiting” may appear while the AV receiver waits for the RT information.
   - If the message “No Text Data” appears, no RT information is available.

Finding Stations by Type (PTY)

You can search for radio stations by type.

1 Press RT/PTY/TP twice.
   The current program type appears on the AV receiver’s display.

2 Use PRESET ▼/▲ to select the type of program you want.
   See the table shown later in this chapter.

3 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.

4 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.

1 Press RT/PTY/TP three times.
   If the current radio station is broadcasting TP (Traffic Program), “[TP]” will appear on the AV receiver’s display. If “TP” without square brackets appears, this means that the station is not broadcasting TP.

2 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.

RDS program types (PTY)

<table>
<thead>
<tr>
<th>Type</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>News reports</td>
<td>News</td>
</tr>
<tr>
<td>Current affairs</td>
<td>Affairs</td>
</tr>
<tr>
<td>Information</td>
<td>Info</td>
</tr>
<tr>
<td>Sport</td>
<td>Sport</td>
</tr>
<tr>
<td>Education</td>
<td>Educate</td>
</tr>
<tr>
<td>Drama</td>
<td>Drama</td>
</tr>
<tr>
<td>Culture</td>
<td>Culture</td>
</tr>
<tr>
<td>Science and technology</td>
<td>Science</td>
</tr>
<tr>
<td>Varied</td>
<td>Varied</td>
</tr>
<tr>
<td>Pop music</td>
<td>Pop M</td>
</tr>
<tr>
<td>Rock music</td>
<td>Rock M</td>
</tr>
<tr>
<td>Middle of the road music</td>
<td>Easy M</td>
</tr>
<tr>
<td>Light classics</td>
<td>Light M</td>
</tr>
<tr>
<td>Serious classics</td>
<td>Classics</td>
</tr>
<tr>
<td>Other music</td>
<td>Other M</td>
</tr>
<tr>
<td>Weather</td>
<td>Weather</td>
</tr>
<tr>
<td>Finance</td>
<td>Finance</td>
</tr>
<tr>
<td>Children’s programmes</td>
<td>Children</td>
</tr>
<tr>
<td>Social affairs</td>
<td>Social</td>
</tr>
<tr>
<td>Religion</td>
<td>Religion</td>
</tr>
<tr>
<td>Phone in</td>
<td>Phone In</td>
</tr>
<tr>
<td>Travel</td>
<td>Travel</td>
</tr>
<tr>
<td>Leisure</td>
<td>Leisure</td>
</tr>
<tr>
<td>Jazz music</td>
<td>Jazz</td>
</tr>
<tr>
<td>Country music</td>
<td>Country</td>
</tr>
<tr>
<td>National music</td>
<td>Nation M</td>
</tr>
<tr>
<td>Oldies music</td>
<td>Oldies</td>
</tr>
<tr>
<td>Folk music</td>
<td>Folk M</td>
</tr>
<tr>
<td>Documentary</td>
<td>Document</td>
</tr>
<tr>
<td>Alarm test</td>
<td>TEST</td>
</tr>
<tr>
<td>Alarm</td>
<td>Alarm!</td>
</tr>
</tbody>
</table>
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® (page 59).

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.

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.

1 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.

2 Second measurement position
   The right side of the listening area.

3 Third measurement position
   The left side of the listening area.

The distances from position 1 to 2 and 1 to 3 must be at least 1 meter (3.3 ft.).

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 runs.
- Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected.

Measurement procedure diagram

- : Listening area
- : Listening position
1 Turn on the AV receiver and the connected TV. On the TV, select the input to which the AV receiver is connected.

2 Set the speaker setup microphone at the Main Listening Position ①, and connect it to the SETUP MIC jack.

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.

3 When you’ve finished making the settings, press ENTER.

The speaker setting menu appears.

Note

• The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV receiver’s display when changing settings.

4 Use ▲/▼ to select “Audyssey Quick Start” or “Audyssey 2EQ Full Calibration”, and then press ENTER.

5 Press ENTER.

Audyssey 2EQ® Room Correction and Speaker Setup starts. 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 8.

6 Place the speaker setup microphone at the next position, and then press ENTER.

Audyssey 2EQ performs more measurements. This takes a few minutes.

7 When prompted, repeat step 6.

8 Use ▲/▼ to select an option, and then press ENTER.

Perform the “Speaker Setup” according to your speaker configuration:

• Speakers Type (Front) (➔ page 54)
• Powered Zone 2 (➔ page 54)
• Surround Back/Front High (➔ page 54)

9 Use ▲/▼ to select a target, and use ◀/▶ to change the setting.

After the results of Audyssey 2EQ have been saved, the menu will display the “Audyssey” (➔ page 59), “Dynamic EQ” (➔ page 59), “Dynamic Volume” (➔ page 59) settings.

Note

• When “Audyssey Quick Start” has been used for measurement, “Audyssey” cannot be selected.
• These settings are applied to all input selectors.

10 Press ENTER.

11 Disconnect the speaker setup microphone.

Tip

• You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using ◀/▶.

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.
Error Messages

While Audyssey 2EQ® Room Correction and Speaker Setup is in progress, one of the error messages below may appear.

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient noise is too high.</td>
<td>The background noise is too loud. Remove the source of the noise and try again.</td>
</tr>
<tr>
<td>Speaker Matching Error!</td>
<td>The number of speakers detected was different from that of the first measurement. Check the speaker connection.</td>
</tr>
<tr>
<td>Writing Error!</td>
<td>This message appears if saving fails. Try saving again. If this message appears after 2 or 3 attempts, contact your Onkyo dealer.</td>
</tr>
<tr>
<td>Speaker Detect Error</td>
<td>This message appears if a speaker is not detected. “No” means that no speaker was detected.</td>
</tr>
</tbody>
</table>

The options are:

- **Retry**: Try again.
- **Cancel**: Cancel Audyssey 2EQ Room Correction and Speaker Setup.

**Tip**

- See “Speaker Configuration” for appropriate settings (➔ page 12).

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 54)
- “Speaker Distance” (➔ page 55)
- “Level Calibration” (➔ page 55)
- “Equalizer Settings” (➔ page 56)

**Note**

- Please note that THX recommends any THX main speakers be set to “80Hz(THX)”. If you set up your speakers using Audyssey 2EQ Room Correction and Speaker Setup, please make sure manually that any THX speakers are set to “80Hz(THX)” crossover (➔ page 54).
- 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.

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. If the subwoofer has a low-pass filter switch, set it to Off or Direct. Refer to your subwoofer’s instruction manual for details.
Using the Listening Modes

Selecting Listening Modes
See “About Listening Modes” for detailed information about the listening modes (➔ page 38).

Listening Mode Buttons

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.

THX button
This button selects the THX listening modes.

MOVIE/TV, MUSIC, GAME, THX

(European, Australian and Asian models)

PURE AUDIO

MOVIE/TV, MUSIC, GAME, THX

(Pure Audio listening mode)

Press RECEIVER first.

(MOVIE/TV, MUSIC, GAME, THX)

(North American and Taiwanese models)
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

Input Source
The following audio formats are supported by the listening modes.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONO</td>
<td>This is mono (monophonic) sound.</td>
</tr>
<tr>
<td>STEREO</td>
<td>This is stereo (stereophonic) sound. Two independent audio signal channels are reproduced through two speakers.</td>
</tr>
<tr>
<td>5.1ch</td>
<td>This is 5.1-channel surround sound. This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel).</td>
</tr>
<tr>
<td>7.1ch</td>
<td>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.</td>
</tr>
<tr>
<td>DTS-ES</td>
<td>This is DTS-ES surround sound. This surround system can produce a discrete or a matrix-encoded sixth channel from existing DTS 5.1 encoded material.</td>
</tr>
<tr>
<td>DTS-EX</td>
<td>This is Dolby Digital EX surround sound. This provides a center back surround channel from 5.1-channel sources.</td>
</tr>
</tbody>
</table>

Speaker Layout
The illustration shows which speakers are activated in each channel. See “Speaker Configuration” for the speaker setup (page 54).

![Speaker Layout Diagram]
### Onkyo-Original DSP Listening Modes

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
<th>Input Source</th>
<th>Speaker Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Orchestra</strong></td>
<td>Suitable for classical or operatic music, this mode emphasizes the surround channels in order to widen the stereo image, and simulates the natural reverberation of a large hall.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Unplugged</strong></td>
<td>Suitable for acoustic instruments, vocals and jazz, this mode emphasizes the front stereo image, giving the impression of being right in front of the stage.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Studio-Mix</strong></td>
<td>Suitable for rock or pop music, listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>TV Logic</strong></td>
<td>This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Game-RPG</strong></td>
<td>In this mode, the sound has a dramatic feel with a similar atmosphere to Orchestra mode.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Game-Action</strong></td>
<td>In this mode, sound localization is distinct with emphasis on bass.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Game-Rock</strong></td>
<td>In this mode, sound pressure is emphasized to heighten live feel.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Game-Sports</strong></td>
<td>In this mode, reverberation is increased and sound localization decreased slightly.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>All Ch Stereo</strong></td>
<td>Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back speakers.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
<tr>
<td><strong>Full Mono</strong></td>
<td>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.</td>
<td>MONO STEREO 5.1ch 7.1ch DTS ES:EX</td>
<td><strong>5.1</strong> <strong>7.1</strong></td>
</tr>
</tbody>
</table>
## Listening Modes

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
<th>Input Source</th>
<th>Speaker Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pure Audio</strong></td>
<td>In this mode, the display and video circuitry are turned off, minimizing possible noise sources for the ultimate in high-fidelity audio reproduction. (As the video circuitry is turned off, only video signals input through HDMI IN can be output from an HDMI output(s).)</td>
<td>Mono</td>
<td>2.1 [3.1, 5.1]</td>
</tr>
<tr>
<td><strong>Pure Audio</strong></td>
<td></td>
<td>Stereo</td>
<td>2.1 [3.1, 5.1]</td>
</tr>
<tr>
<td><strong>Direct</strong></td>
<td>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 the audio setup is disabled. See “On-screen Setup” for more details (➔ page 47).</td>
<td>Direct</td>
<td>2.1 [3.1, 5.1]</td>
</tr>
<tr>
<td><strong>Stereo</strong></td>
<td>Sound is output from the front left and right speakers and subwoofer.</td>
<td>Mono</td>
<td>2.1 [3.1, 5.1]</td>
</tr>
<tr>
<td><strong>Mono</strong></td>
<td>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.</td>
<td>Mono</td>
<td>2.1 [3.1, 5.1]</td>
</tr>
<tr>
<td><strong>Multichannel</strong></td>
<td>This mode is for use with PCM multichannel sources.</td>
<td>Multich</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS</strong></td>
<td>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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).</td>
<td>DTS</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS</strong></td>
<td></td>
<td>DTS-HD HR</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS-HD Master Audio</strong></td>
<td></td>
<td>DTS-E xpr</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS Express</strong></td>
<td></td>
<td>DTS Express</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS 96/24</strong></td>
<td>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.</td>
<td>DTS - HD 96/24</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS Express</strong></td>
<td></td>
<td>DTS Express</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS-HD Master Audio</strong></td>
<td></td>
<td>DTS - HD MSTR</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS-HD Master Audio</strong></td>
<td></td>
<td>DTS-HD HR</td>
<td>5.1ch</td>
</tr>
<tr>
<td><strong>DTS ES Discrete</strong></td>
<td>This mode is for use with DTS-ES Discrete soundtracks, which use a discrete surround back channel for true 6.1/7.1-channel playback. The seven totally separate audio channels provide better spatial imaging and 360-degree 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.</td>
<td>DTS ES Discrete</td>
<td>7.1ch</td>
</tr>
<tr>
<td><strong>DTS ES Discrete</strong></td>
<td></td>
<td>DTS ES Discrete</td>
<td>7.1ch</td>
</tr>
<tr>
<td><strong>DTS ES Discrete</strong></td>
<td></td>
<td>DTS ES</td>
<td>7.1ch</td>
</tr>
<tr>
<td><strong>DTS - HD Master Audio</strong></td>
<td></td>
<td>DTS ES</td>
<td>7.1ch</td>
</tr>
<tr>
<td><strong>DTS ES Discrete</strong></td>
<td></td>
<td>DTS ES</td>
<td>7.1ch</td>
</tr>
</tbody>
</table>

---

*1* In this mode, the display and video circuitry are turned off, minimizing possible noise sources for the ultimate in high-fidelity audio reproduction. (As the video circuitry is turned off, only video signals input through HDMI IN can be output from an HDMI output(s).)

*2* 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.

*3* 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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).

*4* 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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).

*5* 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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).

*6* 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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).

*7* 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 the audio setup are enabled. See “On-screen Setup” for more details (➔ page 47).
### Dolby Pro Logic IIx
- **Dolby Pro Logic IIx** expands any 2-channel source for 7.1-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.

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PL Movie</strong></td>
<td>If you’re not using any surround back speakers, Dolby Pro Logic II will be used instead of Dolby Pro Logic IIx.</td>
</tr>
<tr>
<td><strong>PL Music</strong></td>
<td><em>Dolby PLIIx Movie</em> Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., TV, DVD, VHS).</td>
</tr>
<tr>
<td><strong>PL Game</strong></td>
<td><em>Dolby PLIIx Music</em> Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g., CD, radio, cassette, TV, VHS, DVD).</td>
</tr>
<tr>
<td><strong>PLx Movie</strong></td>
<td><em>Dolby PLIIx Game</em> Use this mode with video games, especially those that bear the Dolby Pro Logic II logo.</td>
</tr>
<tr>
<td><strong>PLx Music</strong></td>
<td><em>Dolby PLIIx Height</em> These modes use the Dolby Pro Logic IIx modes to expand 5.1-channel sources for 7.1-channel playback.</td>
</tr>
<tr>
<td><strong>PLx Game</strong></td>
<td>Dolby Pro Logic IIx Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.</td>
</tr>
<tr>
<td><strong>PL EX</strong></td>
<td>These modes expand 5.1-channel sources for 6.1/7.1-channel playback. They’re especially suited to Dolby EX soundtracks that include a matrix-encoded 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.</td>
</tr>
<tr>
<td><strong>PLx EX</strong></td>
<td>Dolby Pro Logic IIx Height</td>
</tr>
<tr>
<td><strong>Audyssey DSX</strong></td>
<td>Audyssey DSX™ is a scalable system that adds new speakers to improve surround impression. Starting with a 5.1 system Audyssey DSX adds only height channels in this deployment. The pair of Height channels reproduce important acoustical and perceptual cues, which greatly enhance the surround experience. In addition to these new Height channels, Audyssey DSX applies Surround Envelopment Processing to enhance the blend between the front and surround channels.</td>
</tr>
</tbody>
</table>

### DTS Neo:6
- This mode expands any 2-channel source for up to 7.1-channel playback. It uses seven full-bandwidth channels of matrix decoding for matrix-encoded material, providing a very natural and seamless surround sound experience that fully envelops the listener.

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DTS Neo:6</strong></td>
<td><em>DTS Neo:6 Cinema</em> Use this mode with any stereo movie (e.g., TV, DVD, VHS).</td>
</tr>
<tr>
<td><strong>Audyssey DSX</strong></td>
<td><em>DTS Neo:6 Music</em> Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD).</td>
</tr>
<tr>
<td><strong>Audyssey DSX</strong></td>
<td><em>DTS Neo:6</em> This mode uses DTS Neo:6 to expand 5.1-channel sources for 6.1/7.1-channel playback.</td>
</tr>
<tr>
<td><strong>Dolby Pro Logic II Movie + Audyssey DSX</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dolby Pro Logic II Music + Audyssey DSX</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dolby Pro Logic II Game + Audyssey DSX</strong></td>
<td>The combination of Dolby Pro Logic II and Audyssey DSX modes can be used. The PLII and Audyssey DSX indicators light on the AV receiver’s display.</td>
</tr>
</tbody>
</table>
THX develops stringent standards that ensure movies are reproduced in movie theaters and home theaters just as the director intended. THX Modes carefully optimize the tonal and spatial characteristics of the soundtrack for reproduction in the home-theater environment. They can be used with 2-channel matrixed and multichannel sources. Surround back speaker output depends on the source material and the selected listening mode.

- **THX Cinema**  
  THX Cinema mode corrects theatrical soundtracks for playback in a home theater environment. In this mode, THX Loudness Plus is configured for cinema levels and Re-EQ, Timbre Matching, and Adaptive Decorrelation are active.

- **THX Music**  
  THX Music mode is tailored for listening to music, which is typically mastered at significantly higher levels than movies. In this mode, THX Loudness Plus is configured for music playback and only Timbre Matching is active.

- **THX Games**  
  THX Games mode is meant for spatially accurate playback of game audio, which is often mixed similarly to movies but in a smaller environment. THX Loudness Plus is configured for game audio levels, with Timbre Matching active.

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
<th>Input Source</th>
<th>Speaker Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>THX</td>
<td>founder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Listening Mode Details

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
<th>Input Source</th>
<th>Speaker Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THX Cinema</strong></td>
<td>Dolby Pro Logic IIx Movie + THX Cinema</td>
<td>5.1ch, 7.1ch</td>
<td>5.1/7.1</td>
</tr>
<tr>
<td><strong>THX Music</strong></td>
<td>Dolby Pro Logic IIx Music + THX Music</td>
<td>DTS-ES, DTS-EX</td>
<td></td>
</tr>
<tr>
<td><strong>THX Games</strong></td>
<td>Dolby Pro Logic IIx Game + THX Games</td>
<td>DTS-ES, DTS-EX</td>
<td></td>
</tr>
</tbody>
</table>
**Note**

*1 (North American and Taiwanese models) This listening mode is not available.

*2 Pure Audio cannot be selected when Zone 2/3 is active. Besides, if you activate Zone 2/3 while Pure Audio is selected, the listening mode will automatically switch to Direct.

*3 Based on the audio channel signal contained in the source, the corresponding speakers will output the sound.

*4 The AV receiver can input the DSD signal from HDMI IN. Depending on the player, setting the output on the player side to PCM might bring better sound.

*5 For the Blu-ray Discs, Dolby Digital is used in a 3.1/5.1-channel speaker system.

*6 DTS is used depending on the configuration of the AV receiver.

*7 If there are no surround back speakers, DTS is used.

*8 If there are no surround back speakers, Dolby Pro Logic II is used.

*9 This listening mode can be selected only when all the following conditions are satisfied:
   – Center speaker is connected.
   – Front high speakers is connected.

The listening modes cannot be selected with some source formats.

---

### Listening Mode

<table>
<thead>
<tr>
<th>Listening Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DTS Neo:6 Cinema + THX Cinema</strong></td>
<td>DTS Neo:6 Cinema + THX Cinema</td>
</tr>
<tr>
<td><strong>DTS Neo:6 Music + THX Music</strong></td>
<td>DTS Neo:6 Music + THX Music</td>
</tr>
<tr>
<td><strong>DTS Neo:6 + THX Cinema</strong></td>
<td>DTS Neo:6 + THX Cinema</td>
</tr>
<tr>
<td><strong>DTS Neo:6 + THX Music</strong></td>
<td>DTS Neo:6 + THX Music</td>
</tr>
<tr>
<td><strong>DTS Neo:6 + THX Games</strong></td>
<td>DTS Neo:6 + THX Games</td>
</tr>
<tr>
<td><strong>THX Select2 Cinema</strong></td>
<td>THX Select2 Cinema</td>
</tr>
<tr>
<td><strong>THX Select2 Music</strong></td>
<td>THX Select2 Music</td>
</tr>
<tr>
<td><strong>THX Select2 Games</strong></td>
<td>THX Select2 Games</td>
</tr>
<tr>
<td><strong>THX Surround EX</strong></td>
<td>THX Surround EX</td>
</tr>
<tr>
<td><strong>Dolby Pro Logic II Game + THX Select2 Games</strong></td>
<td>Dolby Pro Logic II Game + THX Select2 Games</td>
</tr>
</tbody>
</table>

---

### Dialogue Normalization

Dialogue Normalization (DialogNorm) is a feature of Dolby Digital, which is used to keep the programs at the same average listening level so the user does not have to change the volume control between Dolby Digital, Dolby Digital Plus and Dolby TrueHD programs. When playing back software which has been encoded in Dolby Digital, Dolby Digital Plus and Dolby TrueHD, sometimes you may see a brief message in the front panel display which will read “DialogNorm: X dB” (X being a numeric value). The display is showing how the program level relates with THX calibration level. If you want to play the program at calibrated theatrical levels, you may wish to adjust the volume. For example, if you see the following message: “DialogNorm: + 4 dB” in the front panel display, to keep the overall output level at THX calibrated loudness, just turn down the volume control by 4 dB. However, unlike a movie theater where the playback loudness is preset, you can choose your preferred volume setting for best enjoyment.
Using the Home Menu

The Home menu provides quick access to frequently used menus.

The Home menu appears only on a TV that is connected to HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV receiver’s display when changing settings.

1 Press RECEIVER followed by HOME.
The Home menu will be superimposed on the TV screen.

2 Use ←/→ or ↑/↓ and ENTER to make the desired selection.
Press HOME to close the menu.

Network Service

You need to connect the AV receiver to your home network (➔ page 95).

- With this selection, you can use various Internet radio services or play the contents stored in media connected to your home network (DLNA) (➔ pages 27 to 30). Note that this selection will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.
  Press ENTER to display the network service screen. If you want to use the Internet radio services, use ▲/▼/◄/► to select the desired service. Pressing ENTER again switches to that selection. If you want to play music files on a server, use ▲/▼ to select "dlna" and then press ENTER.

USB

- With this selection, you can play contents of portable players (iPod, etc.) and USB storage devices connected to the AV receiver’s USB port (➔ pages 25, 26).
  Note that this selection will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.
  First, press USB repeatedly to select the “USB(Front)” or “USB(Rear)” input.
  Then, press ENTER to select a drive or browse the contents of the media connected, followed by ▲/▼ to select the desired folder or track. Pressing ENTER as a track is selected will start playback.

Note
- Only the front-panel USB input is compatible with iPod/iPhone.

InstaPrevue

- With this selection, you can preview audio/video streams coming from HDMI inputs previously assigned to input selectors (except for HDMI IN 5/6/7). Even with multiple components connected through HDMI, you can easily switch between inputs as their previews are displayed on a single screen.
  Press ENTER to display the main preview (currently selected HDMI input) and the additional previews (other HDMI inputs). Using ▲/▼ or ◄/► to select a preview thumbnail and pressing ENTER will switch the AV receiver to that input source.

Tip
- If no video signals are present, the thumbnails will be filled in black.
- You can specify the number of preview thumbnails as well as their positioning on screen (➔ page 67).

Note
- This function cannot be selected when:
  - HDMI IN 5/6/7 is the current HDMI input source, or
  - No signal is present on the current input source.
- “Wide Mode” may be adjusted automatically while in InstaPrevue mode (➔ page 61).

Setup

- With this selection, you can access the common settings of the on-screen Setup menu.
  Press ENTER to display the Setup menu (➔ page 50).

Tip
- You can also access frequently used settings from Quick Setup (➔ page 47).

Firmware Update

- With this selection, you can update the firmware of the AV receiver. Note that this selection will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.
  Press ENTER to start the procedure (➔ page 85).
Using the Sleep Timer

With the sleep timer, you can set the AV receiver to turn off automatically after a specified period.

1 Press RECEIVER once followed by SLEEP repeatedly to select the required sleep time. The sleep time can be set from 90 to 10 minutes in 10 minute steps. The SLEEP indicator lights on the AV receiver’s display when the sleep timer has been set. The specified sleep time appears for about 5 seconds, then the previous display reappears.

Tip
• If you need to cancel the sleep timer, press SLEEP repeatedly until the SLEEP indicator goes off.
• To check the time remaining until the AV receiver sleeps, press SLEEP. Note that if you press again on SLEEP as the time being displayed is 10 minutes or less, the sleep timer will go off.

Setting the Display Brightness

You can adjust the brightness of the AV receiver’s display, and switch the MASTER VOLUME indicator off and on in conjunction.

1 Press RECEIVER once followed by DIMMER repeatedly to cycle through the following patterns:
• Normal brightness + indicator off.
• Dim brightness + indicator off.
• Dimmer brightness + indicator off.
• Normal brightness + indicator on (default).

Tip
• (North American and Taiwanese models) Alternatively, you can use DIMMER on the AV receiver.

Displaying Source Information

You can display various information about the current input source as follows.

1 Press RECEIVER once followed by DISPLAY repeatedly to cycle through the available information.

Tip
• Alternatively, you can use DISPLAY on the AV receiver.

The following information can be typically displayed.

<table>
<thead>
<tr>
<th>Input source &amp; volume</th>
<th>BD/DVD</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listening mode</td>
<td>Stereo</td>
<td></td>
</tr>
<tr>
<td>Signal format</td>
<td>Dolby D 5.1</td>
<td></td>
</tr>
<tr>
<td>Sampling frequency</td>
<td>fs: 48kHz</td>
<td></td>
</tr>
<tr>
<td>Input signal resolution</td>
<td>480i/60</td>
<td></td>
</tr>
<tr>
<td>Output resolution</td>
<td>→ 720p/60</td>
<td></td>
</tr>
</tbody>
</table>

*1 When AM or FM radio is used, the band, preset number, and frequency are displayed.
*2 If the input signal is digital, the signal format is displayed. Information is displayed for about three seconds, then the previously displayed information reappears.

Changing the Input Display

When you connect an R1-capable Onkyo component, you must configure the input display so that R1 can work properly. This setting can be done only from the front panel.

1 Press TV/CD or GAME. “TV/CD” or “GAME” appears on the AV receiver’s display.

2 Press and hold down the same button (about 3 seconds) to change the input display. Repeat this step to select the desired input display.

TV/CD: TV/CD → DOCK
GAME: GAME ↔ DOCK

Note
• “DOCK” can be selected for the “TV/CD” or “GAME” input selector, but not at the same time.
• Enter the appropriate remote control code before using the remote controller for the first time (➔ page 76).
Using the Whole House Mode

The Whole House Mode is useful when you want to add extra background music to your home party; this allows you to enjoy the same stereo music as the main room in separate rooms (Zone 2/3).
The Whole House Mode selects the same input source for Multi Zone as the main room’s.
See also:
• “Speaker Setup” (➔ page 54)
• “Multi Zone” (➔ page 70)

1 While holding down ZONE 2, press ZONE 3 on the front panel.
To cancel the Whole House Mode, change the input source for the main room or select a listening mode (➔ page 37).

Note
• The Whole House Mode only supports analog audio.
• To adjust the volume of Multi Zone, switch the AV receiver to Multi Zone control. See “Adjusting the Volume for Zone 2” (➔ page 71) for the volume adjustment of Multi Zone.
• The Whole House Mode is not available in either of the following cases:
  – The “Audio TV Out” setting is set to “On” (➔ page 66).
  – “HDMI Control(RIHD)” is set to “On” (➔ page 65) and you’re listening through your TV speakers.

The Whole House Mode is useful when you want to add extra background music to your home party; this allows you to enjoy the same stereo music as the main room in separate rooms (Zone 2/3). The Whole House Mode selects the same input source for Multi Zone as the main room’s. See also:
• “Speaker Setup” (➔ page 54)
• “Multi Zone” (➔ page 70)

Using the Music Optimizer

The Music Optimizer function enhances the sound quality of compressed music files.

1 (North American and Taiwanese models) Press MUSIC OPTIMIZER on the front panel.
The M.Opt indicator lights on the AV receiver’s display.
The MUSIC OPTIMIZER indicator lights on the front panel.

Tip
• Alternatively, you can use Q SETUP on the remote controller.
• See “Music Optimizer” for more details (➔ page 49).

Muting the AV Receiver

You can temporarily mute the output of the AV receiver.

1 Press RECEIVER followed by MUTING.
The output is muted and the MUTING indicator flashes on the AV receiver’s display.

Tip
• To unmute, press MUTING again or adjust the volume.
• Muting is automatically cancelled when the AV receiver is set to standby.

Using Headphones

1 Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack.
While the headphones plug is inserted in the PHONES jack, ✋ indicator lights on the AV receiver’s display.

Note
• Always turn down the volume before connecting your headphones.
• While the headphones plug is inserted in the PHONES jack, the speakers are turned off. (The Powered Zone 2 speakers are not turned off.)
• When you connect a pair of headphones, the listening mode is set to Stereo, unless it’s already set to Stereo, Mono, Direct, or Pure Audio (European, Australian and Asian models).
• If you connect an iPod or iPhone to the USB port on the AV receiver, no sound will be output from the headphones jack.

Connecting a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack.
While the headphones plug is inserted in the PHONES jack, ✋ indicator lights on the AV receiver’s display.

Note
• Always turn down the volume before connecting your headphones.
• While the headphones plug is inserted in the PHONES jack, the speakers are turned off. (The Powered Zone 2 speakers are not turned off.)
• When you connect a pair of headphones, the listening mode is set to Stereo, unless it’s already set to Stereo, Mono, Direct, or Pure Audio (European, Australian and Asian models).
• If you connect an iPod or iPhone to the USB port on the AV receiver, no sound will be output from the headphones jack.
On-screen Setup

With the AV receiver connected to a TV, there are two ways of changing the settings on-screen: using the Quick Setup or the Setup Menu (HOME).

Quick Setup
The Quick Setup provides quick access to frequently used settings. You can change settings and view the current information.

Setup menu (HOME)
The Setup menu (HOME) provides a convenient way to change the AV receiver’s various settings. Settings are organized into 9 categories.

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. 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.

Using the Quick Setup

1 Press RECEIVER followed by Q SETUP. The Quick Setup will be superimposed on the TV screen.
2 Use ▲/▼ and ENTER to make the desired selection. Press Q SETUP to close the menu. Press RETURN to return to the previous menu.

Explanatory Notes

1 Setting target
2 Setting options (default setting underlined)

Input

You can select input sources and view the following information: the name of input selectors, input assignments, radio information, and ARC function setting.

If an HDMI input other than HDMI IN 5, 6, and 7 is assigned to an input selector, a preview of the video stream will be displayed.*1 “EXTRA1” and “EXTRA2” can only be selected if they are assigned to HDMI, component, coaxial, or optical inputs.

Use ▲/▼ to select an input source and view the related information. Pressing ENTER switches to the selected input source.

Audio (→ page 48)


Video*3

You can change the following settings: “Wide Mode” and “Picture Mode”*4.

See also:
• “Picture Adjust” (→ page 61)

Information*5

You can view the information of the following items: “Audio”, “Video” and “Tuner”.

Listening Mode*6

You can select the listening modes that are grouped in the following categories: “MOVIE/TV”, “MUSIC”, “GAME”, and “THX”.

Use ▲/▼ to select the category and ◄/◢ to select the listening mode. Press ENTER to switch to the selected listening mode.

To be continued
Note

*1 The video preview is not displayed when:
– HDMI IN 5/6/7 is the current HDMI input source, or
– No signal is present on the current input source.

*2 “Dynamic EQ” and “Dynamic Volume” cannot be selected when any of the THX listening modes is selected, with “Loudness Plus” set to “On” or “Preserve THX Settings” set to “Yes” (➔ page 56).

*3 When the “Monitor Out” setting is set to “Sub”, “Video” cannot be selected (➔ page 52).

*4 Only when you have selected “Custom” in the “Picture Mode” (➔ page 61), pressing ENTER allows you to adjust the following items via the Quick Setup: “Brightness”, “Contrast”, “Hue” and “Saturation”. Press RETURN to return to the “Picture Mode” setting.

*5 Depending on the input source and listening mode, not all channels shown here output the sound.

*6 This setting is not available in either of the following cases:
– The “Audio TV Out” setting is set to “On” (➔ page 66).
– “HDMI Control(RIHD)” is set to “On” (➔ page 65) and you’re listening through your TV speakers.

Using the Audio Settings of Quick Setup

You can change various audio settings from the Quick Setup (➔ page 47).

Note

• These settings are not available in either of the following cases:
  – The “Audio TV Out” setting is set to “On” (➔ page 66).
  – “HDMI Control(RIHD)” is set to “On” (➔ page 65) and you’re listening through your TV speakers.

Tone Control

Bass

–10dB to 0dB to +10dB in 2 dB steps
You can boost or cut low-frequency sounds output from the front speakers.

Treble

–10dB to 0dB to +10dB in 2 dB steps
You can boost or cut high-frequency sounds output from the front speakers.

You can adjust the bass and treble for the front speakers, except when the Direct, Pure Audio (European, Australian and Asian models) or THX listening mode is selected.

Operating on the AV receiver

1 Press TONE repeatedly to select either “Bass” or “Treble”.

2 Use – and + to adjust.

Speaker Levels

Subwoofer Level

–15dB to 0dB to +12dB in 1 dB steps
You can adjust the volume of each speaker while listening to an input source.
These temporary adjustments are cancelled when the AV receiver is set to standby. To save the setting you made here, go to “Level Calibration” (➔ page 55) before setting the AV receiver to standby.

Note

• You cannot use this function while the AV receiver is muted.
• These settings cannot be used while a pair of headphones is connected.
• Speakers that are set to “No” or “None” in “Speaker Configuration” (➔ page 54) cannot be adjusted.
**Audyssey**

See “Audyssey” in “Source Setup” (➔ page 59).

**Dynamic EQ**

See “Dynamic EQ” in “Source Setup” (➔ page 59).

**Dynamic Volume**

See “Dynamic Volume” in “Source Setup” (➔ page 59).

**Note**

These technologies can be used when all the following conditions are met:
- Room Correction and Speaker Setup is completed. Note that “Audyssey” requires the “Audyssey 2EQ Full Calibration” method.
- Any listening mode other than Direct or Pure Audio (European, Australian and Asian models) is selected.
- A pair of headphones is not connected.
- “Dynamic EQ” and “Dynamic Volume” cannot be selected when any of the THX listening modes is selected, with “Loudness Plus” set to “Off” or “Preserve THX Settings” set to “Yes” (➔ page 56).

**Late Night**

For Dolby Digital and Dolby Digital Plus sources, the options are:

- **Off**
- **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.
- **Off**

**Music Optimizer**

**Note**

These settings are stored individually for each input selector. In THX listening mode however, the setting will return to “On” when the AV receiver is turned off.

These settings cannot be used while a pair of headphones is connected.

---

**Re-EQ**

With the Re-EQ function, you can compensate a soundtrack whose high-frequency content is too harsh, making it more suitable for home theater viewing.

**Note**

These settings are stored individually for each input selector. In THX listening mode however, the setting will return to “On” when the AV receiver is turned off.

These settings cannot be used while a pair of headphones is connected.
Using the Setup Menu (HOME)

1. Press RECEIVER followed by HOME.
2. Use ◄► to select “Setup”, and then press ENTER.
3. Use ▲▼ to select a main menu item, and then press ENTER.
4. Use ▲▼ to select a sub menu item, and then press ENTER.
5. Use ▲▼ to select a setting target, and use ◄► to change the setting.
   - Press HOME to close the menu.
   - Press RETURN to return to the previous menu.

Note
- This procedure can also be performed on the AV receiver by using SETUP, the cursor buttons, and ENTER.
- During Audyssey 2EQ® Room Correction and Speaker Setup, messages, etc., that are displayed on the TV screen will appear on the AV receiver’s display.

Explanatory Notes

1. Main Menu Speaker Setup
2. Speaker Configuration
   - Subwoofer
     - Yes
     - No

Note
- Tip
  - The time until the screen saver activates itself can be changed in the “Screen Saver” setting (page 65).
  - The screen will return to its previous state if the AV receiver is operated.

Screen saver
- If there is no video signal on the current input source and no operation for a specific time (three minutes by default), a screen saver automatically comes on.

Tip
- The time until the screen saver activates itself can be changed in the “Screen Saver” setting (page 65).
- The screen will return to its previous state if the AV receiver is operated.
By way of optimized circuitry, this function reduces power consumption when the AV receiver is in standby mode. The **HYBRID STANDBY** indicator will light in either of the following conditions:

- “HDMI Through” is enabled (the HDMI indicator is off).
- “Network Standby” is enabled (the NET indicator is off).

**Note**

- If Zones are turned on or, if a mobile device connected to the Front Input (MHL) is charging, the **HYBRID STANDBY** indicator won’t light.

<table>
<thead>
<tr>
<th>Main menu item</th>
<th>Sub menu item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input/Output Assign</td>
<td>Monitor Out</td>
</tr>
<tr>
<td></td>
<td>HDMI Input</td>
</tr>
<tr>
<td></td>
<td>Component Video Input</td>
</tr>
<tr>
<td></td>
<td>Digital Audio Input</td>
</tr>
<tr>
<td><strong>Speaker Setup</strong></td>
<td>Speaker Settings</td>
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<tr>
<td></td>
<td>Speaker Configuration</td>
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<td></td>
<td>Speaker Distance</td>
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<tr>
<td></td>
<td>Level Calibration</td>
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<tr>
<td></td>
<td>Equalizer Settings</td>
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<tr>
<td></td>
<td>THX Audio Setup</td>
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<tr>
<td><strong>Audio Adjust</strong></td>
<td>Multiplex/Mono</td>
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<tr>
<td></td>
<td>Dolby</td>
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<td></td>
<td>DTS</td>
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<td></td>
<td>Audyssey DSX</td>
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<tr>
<td></td>
<td>Theater-Dimensional</td>
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<tr>
<td></td>
<td>LFE Level</td>
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<tr>
<td><strong>Source Setup</strong></td>
<td>Audyssey</td>
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<td></td>
<td>IntelliVolume</td>
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<tr>
<td></td>
<td>A/V Sync</td>
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<td></td>
<td>Name Edit</td>
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<tr>
<td></td>
<td>Picture Adjust</td>
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<tr>
<td></td>
<td>Audio Selector</td>
</tr>
<tr>
<td><strong>Listening Mode Preset</strong></td>
<td>BD/DVD</td>
</tr>
<tr>
<td></td>
<td>CBL/SAT</td>
</tr>
<tr>
<td></td>
<td>STB/DVR</td>
</tr>
<tr>
<td></td>
<td>GAME</td>
</tr>
<tr>
<td></td>
<td>PC</td>
</tr>
<tr>
<td></td>
<td>AUX</td>
</tr>
<tr>
<td></td>
<td>TUNER</td>
</tr>
<tr>
<td></td>
<td>TV/CD</td>
</tr>
<tr>
<td></td>
<td>NET</td>
</tr>
<tr>
<td></td>
<td>USB</td>
</tr>
<tr>
<td></td>
<td>EXTRA1</td>
</tr>
<tr>
<td></td>
<td>EXTRA2</td>
</tr>
</tbody>
</table>

---

**About the HYBRID STANDBY indicator**

**Setup menu items**

<table>
<thead>
<tr>
<th>Main menu item</th>
<th>Sub menu item</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Miscellaneous</strong></td>
<td>Volume Setup</td>
</tr>
<tr>
<td></td>
<td>OSD Setup</td>
</tr>
<tr>
<td><strong>Hardware Setup</strong></td>
<td>Tuner</td>
</tr>
<tr>
<td></td>
<td>HDMI</td>
</tr>
<tr>
<td></td>
<td>Auto Standby</td>
</tr>
<tr>
<td></td>
<td>Network</td>
</tr>
<tr>
<td></td>
<td>Initial Setup</td>
</tr>
<tr>
<td><strong>Remote Controller Setup</strong></td>
<td>Remote ID</td>
</tr>
<tr>
<td></td>
<td>Remote Mode Setup</td>
</tr>
<tr>
<td><strong>Lock Setup</strong></td>
<td>Setup</td>
</tr>
</tbody>
</table>
Output from both HDMI outputs at the resolution supported by both TVs.

### Resolution

- **Through:**
  - Select this to pass video through the AV receiver at the same resolution and with no conversion.

- **Auto:**
  - Select this to have the AV receiver automatically convert video at resolutions supported by your TV.

- **480p (480p/576p), 720p, 1080i, 1080p:**
  - Select the desired output resolution.

- **1080p/24:**
  - Select this for 1080p output at 24 frames per second.

- **4K Upscaling:**
  - Select this for an output resolution four times that of 1080p. Depending on the resolution supported by your TV, it will result in either 3840 × 2160 or 4096 × 2160 pixels.

You can specify the output resolution for **HDMI OUT MAIN** and have the AV receiver upconvert the picture resolution as necessary to match the resolution supported by your TV.

### Note

- Depending on the incoming video signal, the video playback may not be smooth or the vertical resolution may be lowered. In this case select anything other than “1080p/24”.
- If the “Monitor Out” setting is set to “Sub”, this setting is fixed to “Through”.
- If the “Monitor Out” setting is set to “Both”, this setting is fixed to “Auto”.

### Monitor Out

- **Main:**
  - Select this if your TV is connected to **HDMI OUT MAIN**.

- **Sub:**
  - Select this if your TV is connected to **HDMI OUT SUB**.

- **Both:**
  - Select this if your TVs are connected to **HDMI OUT MAIN** and **HDMI OUT SUB**. Video signals are output from both HDMI outputs at the resolution supported by both TVs.

---

### HDMI Input

If you connect a video component to an HDMI input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **HDMI IN 2**, you must assign “HDMI2” to the “BD/DVD” input selector.

If you’ve connected your TV to the AV receiver with an HDMI cable, composite video and component video sources can be upconverted and output by the HDMI output. You can set this for each input selector by selecting the “- - - - -” option. See “Video Connection Formats” for more information on video signal flow and upconversion (page 89).

Here are the default assignments.

<table>
<thead>
<tr>
<th>Input selector</th>
<th>Default assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD/DVD</td>
<td>HDMI1</td>
</tr>
<tr>
<td>CBL/SAT</td>
<td>HDMI2</td>
</tr>
<tr>
<td>STB/DVR</td>
<td>HDMI3</td>
</tr>
<tr>
<td>GAME</td>
<td>HDMI4</td>
</tr>
<tr>
<td>PC</td>
<td>HDMI5</td>
</tr>
<tr>
<td>AUX</td>
<td>FRONT (Fixed)</td>
</tr>
<tr>
<td>TV/CD</td>
<td>- - - - -</td>
</tr>
<tr>
<td>EXTRA1</td>
<td>- - - - -</td>
</tr>
<tr>
<td>EXTRA2</td>
<td>- - - - -</td>
</tr>
</tbody>
</table>

To be continued
Advanced Operations

■ BD/DVD, CBL/SAT, STB/DVR, GAME, PC, TV/CD, EXTRA1, EXTRA2
  ▶ HDMI1, HDMI2, HDMI3, HDMI4, HDMI5, HDMI6, HDMI7:
  Select the input to which the component has been connected.
  ・ ・ ・ ・ ・ ・
  Output composite video and component video sources from the HDMI output. The video output signal from the HDMI output is the one configured in “Component Video Input”.

Each HDMI input cannot be assigned to two input selectors or more. When HDMI1 - HDMI7 have already been assigned, you must first set any unused input selectors to “ ・ ・ ・ ・ ” or you will be unable to assign HDMI1 - HDMI7 to other input selectors.

Tip
  • “EXTRA1” and “EXTRA2” can be selected as input sources in “Input” of “Quick Setup” (➔ page 47).

Note
  • If no video component is connected to HDMI output (even if the HDMI input is assigned), the AV receiver selects the video source based on the setting of “Component Video Input”.
  • When an HDMI IN is assigned to an input selector as explained here, the same HDMI IN will be set as a priority in the “Digital Audio Input”. In this case, if you want to use the coaxial or optical audio input, make the appropriate selection in the “Audio Selector” setting (➔ page 62).
  • Do not assign an HDMI IN to the TV/CD selector while “HDMI Control(RIHD)” is set to “On” (➔ page 65), otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.
  • If you assign “ ・ ・ ・ ・ ” to an input selector that is currently selected in “HDMI Through” (➔ page 66), the “HDMI Through” setting will be automatically switched to “Off”.
  • “AUX” is used only for input from the front panel.

□ Component Video Input
If you connect a video component to a component video input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to "COMPONENT VIDEO IN", you must assign “IN1” to the “BD/DVD” input selector.

Here are the default assignments.

<table>
<thead>
<tr>
<th>Input selector</th>
<th>Default assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD/DVD</td>
<td>・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>CBL/SAT</td>
<td>IN1</td>
</tr>
<tr>
<td>STB/DVR</td>
<td>・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>GAME</td>
<td>・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>PC</td>
<td>・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>AUX</td>
<td>・ ・ ・ ・ (Fixed)</td>
</tr>
<tr>
<td>TV/CD</td>
<td>・ ・ ・ ・</td>
</tr>
<tr>
<td>EXTRA1</td>
<td>・ ・ ・ ・</td>
</tr>
<tr>
<td>EXTRA2</td>
<td>・ ・ ・ ・</td>
</tr>
</tbody>
</table>

□ BD/DVD, CBL/SAT, STB/DVR, GAME, PC, TV/CD, EXTRA1, EXTRA2
  ▶ IN1:
  Select the input to which the component has been connected.
  ・ ・ ・ ・ ・ ・
  Output composite video sources from the HDMI output.

Tip
  • “EXTRA1” and “EXTRA2” can be selected as input sources in “Input” of “Quick Setup” (➔ page 47).

Note
  • When composite video and component video sources are upconverted for HDMI OUT SUB, only signals with a resolution of 480i/576i are output and the resolution remains the same. If your TV doesn’t support this resolution, there will be no picture (➔ page 91).
  • “AUX” is fixed to the “ ・ ・ ・ ・ ” option.

□ Digital Audio Input
If you connect a video component to a digital audio input, you must assign that input to an input selector. For example, if you connect your CD player to the OPTICAL IN 1, you must assign “OPTICAL1” to the “TV/CD” input selector.

Here are the default assignments.

<table>
<thead>
<tr>
<th>Input selector</th>
<th>Default assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD/DVD</td>
<td>COAXIAL1</td>
</tr>
<tr>
<td>CBL/SAT</td>
<td>COAXIAL2</td>
</tr>
<tr>
<td>STB/DVR</td>
<td>・ ・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>GAME</td>
<td>OPTICAL1</td>
</tr>
<tr>
<td>PC</td>
<td>・ ・ ・ ・ ・</td>
</tr>
<tr>
<td>AUX</td>
<td>・ ・ ・ ・ (Fixed)</td>
</tr>
<tr>
<td>TV/CD</td>
<td>OPTICAL2</td>
</tr>
<tr>
<td>EXTRA1</td>
<td>・ ・ ・ ・</td>
</tr>
<tr>
<td>EXTRA2</td>
<td>・ ・ ・ ・</td>
</tr>
</tbody>
</table>

■ BD/DVD, CBL/SAT, STB/DVR, GAME, PC, TV/CD, EXTRA1, EXTRA2
  ▶ COAXIAL1, COAXIAL2, OPTICAL1, OPTICAL2:
  Select the input to which the component has been connected.
  ・ ・ ・ ・ ・ ・
  Select if the component is connected to an analog audio input.

Tip
  • “EXTRA1” and “EXTRA2” can be selected as input sources in “Input” of “Quick Setup” (➔ page 47).

Note
  • When an HDMI IN is assigned to an input selector in “HDMI Input” (➔ page 52), the same HDMI IN will be set as a priority in this assignment. In this case, if you want to use the coaxial or optical audio input, make the appropriate selection in the “Audio Selector” (➔ page 62).
  • Supported sampling rates for PCM signals (stereo/mono) from a digital input (optical and coaxial) are 32/44.1/48/88.2/96 kHz/16, 20, 24 bit.
  • “AUX” is fixed to the “ ・ ・ ・ ・ ” option.
Advanced Operations

Main menu Speaker Setup

Here you can check the settings made by Audyssey 2EQ Room Correction and Speaker Setup function, or set them manually, which is useful if you change one of the connected speakers after using Audyssey 2EQ Room Correction and Speaker Setup function.

Speaker Settings

If you change these settings, you must run Audyssey 2EQ Room Correction and Speaker Setup again (⇒ page 34).

If you bi-amp the front speakers, you must change the “Speakers Type (Front)” setting. For details on speaker wire connection, see “Bi-amping the Front Speakers” (⇒ page 14).

Note
- When bi-amping is used, the AV receiver is able to drive up to 5.1 speakers in the main room.
- Before you change these settings, turn down the volume.

Speaker Impedance
(European, Australian and Asian models)

4ohms:
Select if the impedance of any speaker is 4 ohms or more but less than 6.

Note
- (North American and Taiwanese models) Speakers with an impedance of less than 6 ohms are not supported.

- 6ohms:
Select if the impedances of all speakers are between 6 and 16 ohms.

Note
- (European, Australian and Asian models) `4ohms` Select if the impedance of any speaker is 4 ohms or more but less than 6.
- `6ohms` Select if the impedances of all speakers are between 6 and 16 ohms.

Note
- (North American and Taiwanese models) Speakers with an impedance of less than 6 ohms are not supported.

Speakers Type (Front)

Normal:
Select this if you’ve connected your front speakers normally.

Bi-Amp:
Select this if you’ve bi-amped your front speakers.

Powered Zone 2

No
Yes:
Zone 2 speakers can be used. (Powered Zone 2 enabled).

Note
- If the “Speakers Type (Front)” setting is set to “Bi-Amp”, Powered Zone 2 cannot be used.
- When the “Powered Zone 2” setting is set to “Yes” and Zone 2 is turned on, the surround back and front high speakers cannot be used.

Speaker Impedance (European, Australian and Asian models)

4ohms:
Select if the impedance of any speaker is 4 ohms or more but less than 6.

Note
- (North American and Taiwanese models) Speakers with an impedance of less than 6 ohms are not supported.

- 6ohms:
Select if the impedances of all speakers are between 6 and 16 ohms.

Note
- (North American and Taiwanese models) Speakers with an impedance of less than 6 ohms are not supported.

Subwoofers

Yes
No

Front

Full Band
40Hz to 80Hz (THX) to 100Hz, 120Hz, 150Hz, 200Hz

Note
- If the “Subwoofer” setting is set to “No”, the “Front” setting is fixed at “Full Band”.

Center\(^1\), Surround\(^1\)

Full Band
40Hz to 80Hz (THX) to 100Hz, 120Hz, 150Hz, 200Hz
None

Front High\(^1\)\(^2\)\(^3\)\(^5\)

Full Band
40Hz to 80Hz (THX) to 100Hz, 120Hz, 150Hz, 200Hz
None

Surround Back\(^1\)\(^2\)\(^3\)\(^4\)

Full Band
40Hz to 80Hz (THX) to 100Hz, 120Hz, 150Hz, 200Hz
None

Note
- “Full Band” can be selected only when “Full Band” is selected in the “Front” setting.
- If the “Surround” setting is set to “None”, this setting cannot be selected.
- If the “Speakers Type (Front)” setting is set to “Bi-Amp”, or the “Powered Zone 2” setting is set to “Yes” together with Zone 2 turned on, this setting cannot be selected.
- If anything else than “None” is selected in “Front High”, this setting is automatically set to “None”.
- If anything else than “None” is selected in “Surround Back”, this setting is automatically set to “None”.

Speaker Configuration

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup (⇒ page 34).

With these settings, you can specify which speakers are connected and a crossover frequency for each speaker. Specify “Full Band” for speakers that output low frequency bass sounds adequately, for example, speakers with a good sized woofer. For smaller speakers, specify a crossover frequency. Sounds below the crossover frequency will be output by the subwoofer instead of the speaker. Refer to your speaker’s manuals to determine the optimum crossover frequencies. If you set up your speakers using Audyssey 2EQ Room Correction and Speaker Setup, please make sure manually that any THX speakers are set to “80Hz (THX)” crossover.
■ Surround Back Ch
  1ch:
  Select if only one surround back speaker L is connected.
  2ch:
  Select if two (left and right) surround back speakers are connected.

**Note**
- If the “Surround Back” setting is set to “None”, this setting cannot be selected.
- If the “Powered Zone 2” setting is set to “Yes” and Zone 2 is turned on, this setting cannot be selected.

■ LPF of LFE
  (Low-Pass Filter for the LFE Channel)
  80Hz, 90Hz, 100Hz, 120Hz
  Off:
  Low-Pass Filter is not applied.

With this setting, you can specify the cutoff frequency of the LFE channel’s low-pass filter (LPF), which can be used to filter out unwanted hum. The LPF only applies to sources that use the LFE channel.

**Note**
- If you’re using THX-certified speakers, select “80Hz”.

■ Double Bass
  On
  Off(THX)
  Turn this setting on to boost bass output by feeding bass sounds from the front left, right, and center channels to the subwoofer.

**Note**
- When the “Subwoofer” setting is set to “No” or the “Front” setting to anything other than “Full Band”, this setting is fixed to “...”.
- This setting is set to “On” automatically when the “Subwoofer” and “Front” settings are set for the first time to “Yes” and “Full Band” respectively.
- If you’re using THX-certified speakers, select “Off(THX)”.

**Speaker Distance**

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup (» page 34).

Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener’s ears as the sound designer intended.

**Unit**
  feet:
  Distances can be set in feet. Range: 1.0ft to 30.0ft in 1.0 foot steps.
  meters:
  Distances can be set in meters. Range: 0.30m to 9.00m in 0.30 meter steps.

(The default setting varies from country to country.)

**Left, Front High Left, Center, Front High Right, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left**
  Specify the distance from each speaker to your listening position.

**Note**
- Speakers that you set to “No” or “None” in “Speaker Configuration” cannot be selected (» page 54).
- When the “Powered Zone 2” setting is set to “Yes” and Zone 2 is turned on, the surround back and front high speakers cannot be used.

■ Subwoofer
  -12dB to +12dB in 1 dB steps.

■ Level Calibration

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup (» page 34).

Here you can adjust the level of each speaker with the built-in test tone so that the volume of each speaker is the same at the listening position.

**Note**
- These settings cannot be calibrated in either of the following cases:
  - The “Audio TV Out” setting is set to “On” (» page 66).
  - “HDMI Control(RIHD)” is set to “On” (» page 65) and you’re listening through your TV speakers.
  - The AV receiver is muted.

■ Left, Front High Left, Center*, Front High Right, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left
  -15dB to +12dB in 1 dB steps.

*1 For the center speaker and subwoofer, the level settings made by using the Quick Setup are saved in this menu (» page 48).

**Tip**
- If you’re using a handheld sound level meter, adjust the level of each speaker so that it reads 75 dB SPL at the listening position, measured with C-weighting and slow reading.
**Equalizer Settings**

With the Equalizer settings, you can adjust the tone of speakers individually with a 5-band equalizer. The volume of each speaker can be set (➔ page 55).

### Manual Equalizer

- **On:**
  
  You can adjust the equalizer for each speaker manually. Continue with the following procedure:

1. Press ▼ to select “Channel”, and then use ◀/▶ to select a speaker.
2. Use ▲/▼ to select a frequency, and then use the ◀/▶ to adjust the level at that frequency.
   
   The volume at each frequency can be adjusted from –6dB to 0dB to +6dB in 1 dB steps.
   
   **Tip**
   
   - You can select: “63Hz”, “250Hz”, “1000Hz”, “4000Hz”, or “16000Hz”. And for the subwoofer, “25Hz”, “40Hz”, “63Hz”, “100Hz”, or “160Hz”.
   - Low frequencies (e.g., 63Hz) affect bass sounds; high frequencies (e.g., 16000Hz) affect treble sounds.
3. Use ▲ to select “Channel”, and then use ◀/▶ to select another speaker.
   
   Repeat steps 1 and 2 for each speaker.
   
   You cannot select speakers that you set to “No” or “None” in the “Speaker Configuration” (➔ page 54).

- **Off:**
  
  Tone off, response flat.

**Note**

- When the Direct or Pure Audio (European, Australian, and Asian models) listening mode is selected, the equalizer settings have no effect.
- If “Audyssey” is enabled, it prevails over this setting (➔ page 59).

**THX Audio Setup**

### Surr Back Speaker Spacing

- **<1ft (<0.3m)**
- **1ft-4ft (0.3m-1.2m)**
- **>4ft (>1.2m)**

You can specify the distance between your surround back speakers.

**Note**

- Cannot be set if:
  - “Surround Back” is set to “None” (➔ page 54).
  - “Surround Back Ch” is set to “1ch” (➔ page 55).
  - “Powered Zone 2” is set to “Yes” (➔ page 54) and Zone 2 turned on (➔ page 71).

### THX Ultra2/Select2 Subwoofer

- **No**
- **Yes**

If you’re using a THX-certified subwoofer, set this setting to “Yes”.

**Note**

- If the “Subwoofer” setting is set to “No”, this setting cannot be selected (➔ page 54).

### BGC

- **Off**
- **On**

You can apply THX’s Boundary Gain Compensation (BGC) to compensate the perceived exaggeration of low frequencies for listeners sitting very close to a room boundary (i.e., wall).

**Note**

- This setting is only available if “THX Ultra2/Select2 Subwoofer” is set to “Yes”.
- If the “Subwoofer” setting is set to “No”, this setting cannot be selected (➔ page 54).

### Loudness Plus

- **Off**
- **On**

When the “Loudness Plus” setting is set to “On”, it is possible to enjoy even subtle nuances of audio expression at low volume. This is only available when the THX listening mode is selected.

### Preserve THX Settings

- **Yes**
- **No**

If this setting is set to “Yes”, Dynamic EQ and Dynamic Volume have no effect in THX listening mode.

**Note**

- This setting is fixed at “Yes” if “Loudness Plus” is set to “On”.

### Metadata Compatible

- **On**
- **Off**

When Metadata Compatible is set to “On”, valid metadata is transmitted via the HDMI connections, and can be used by other devices in the system.

- **Off:**
  
  When Metadata Compatible is set to “Off”, metadata is not transmitted via the HDMI connections.

The HDMI connection in your system is used to deliver uncompressed digital audio and video information from one device to the next. There is also additional information about this digital content that can be delivered. Such additional information is referred to as “metadata”. Metadata Compatible mode should be used when there are home theater components in your system, such as Blu-ray disc players, set top boxes and displays that use this additional metadata. For example, Metadata Compatible mode should be set to ON when there are THX Media Director™ Enabled devices in the system. This ensures that this additional information can be received by your Onkyo AVR and can be sent to other devices that are connected in your home theater system, with no interruption.
Main menu Audio Adjust

With the Audio Adjust functions and settings, you can adjust the sound and listening modes as you like.

Multiplex/Mono

Multiplex

Input Channel

- **Main**
- **Sub**
- **Main/Sub**

This setting determines which channel of a stereo multiplex source is output. Use it to select audio channels or languages with multiplex sources, multilingual TV broadcasts, and so on.

Mono

Input Channel

- **Left + Right**
- **Left**
- **Right**

This setting specifies the channel to be used for playing any 2-channel digital source such as Dolby Digital, or 2-channel analog/PCM source in the Mono listening mode.

Output Speaker

- **Center**: Mono audio is output by the center speaker.
- **Left / Right**: Mono audio is output by the front left and right speakers.

This setting determines which speakers output mono audio when the Mono listening mode is selected.

Note

- If the “Center” setting is set to “None” (page 54), this setting cannot be selected.

THX Loudness Plus

THX Loudness Plus is a new volume control technology featured in THX Ultra2 Plus™ and THX Select2 Plus™ Certified receivers. With THX Loudness Plus, home theater audiences can now experience the rich details in a surround mix at any volume level. A consequence of turning the volume below Reference Level is that certain sound elements can be lost or perceived differently by the listener. THX Loudness Plus compensates for the tonal and spatial shifts that occur when the volume is reduced by intelligently adjusting ambient surround channel levels and frequency response. This enables users experience the true impact of soundtracks regardless of the volume setting. THX Loudness Plus is automatically applied when listening in any THX listening mode. The new THX Cinema, THX Music, and THX Games modes are tailored to apply the proper THX Loudness Plus settings for each type of content.

Dolby

PL IIx Music (2ch Input)

These settings apply to only 2-channel stereo sources. If you’re not using any surround back speakers, these settings apply to Dolby Pro Logic II, not Dolby Pro Logic IIx.

Panorama

- **On**
- **Off**

With this setting, you can broaden the width of the front stereo image when using the Dolby Pro Logic IIx Music listening mode.

Dimension

- **–3** to **0** to **+3**

With this setting, you can move the sound field forward or backward when using the Dolby Pro Logic IIx Music listening mode. Higher settings move the sound field backward. Lower settings move it forward.

If the stereo image feels too wide, or there’s too much surround sound, move the sound field forward to improve the balance. Conversely, if the stereo image feels like it’s in mono, or there’s not enough surround sound, move it backward.

Center Width

- **0** to **3** to **7**

With this setting, you can adjust the width of the sound from the center speaker when using the Dolby Pro Logic IIx Music listening mode. Normally, if you’re using a center speaker, the center channel sound is output from 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.

To be continued
The Height Gain Control in Dolby Pro Logic IIz enables the listener to select how much gain is applied to the front high speakers. There are three settings, “Low”, “Mid” and “High”, and the front high speakers are accentuated in that order. While “Mid” is the default listening setting, the listener may adjust the Height Gain Control to their personal preference.

**Note**
- If the “Front High” settings is set to “None” (page 54), this setting cannot be selected.
- If the “Powered Zone 2” setting is set to “Yes” and Zone 2 is turned on, this setting cannot be selected.

**Dolby EX**

**Auto:**
If the source signal contains a Dolby EX flag, the Dolby EX or THX Surround EX listening mode is used.

**Manual:**
You can select any available listening mode.

This setting determines how Dolby EX encoded signals are handled. This setting is unavailable if no surround back speakers are connected. This setting is effective with Dolby Digital, Dolby Digital Plus and Dolby TrueHD only.

**Note**
- If the “Surround Back” setting is set to “None” (page 54), this setting cannot be selected.
- If the “Powered Zone 2” setting is set to “Yes” and Zone 2 is turned on, this setting cannot be selected.

**TrueHD Loudness Management**

**Off**
This setting specifies whether or not to apply the Late Night processing on a Dolby TrueHD source.

**On**
This setting specifies whether or not to apply the Late Night processing on a Dolby TrueHD source.

**Note**
- When this setting is set to “Off”, the Late Night function for Dolby TrueHD sources is automatically fixed to “Off”.
- When this setting is set to “Off”, the Dialogue Normalization information is not available for Dolby TrueHD sources.

**Dolby EX**

**Auto:**
If the source signal contains a Dolby EX flag, the Dolby EX or THX Surround EX listening mode is used.

**Manual:**
You can select any available listening mode.

The DTS Neo:6 Music listening mode creates 6-channel surround sound from 2-channel stereo sources. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the center channel. Changing the value from “0” to “5” will spread the sound of the center channel to left and right (outwards).

**Audyssey DSX™**

**Soundstage**

**–3dB to Reference to +3dB**
With this setting, you can adjust the sound stage when using Audyssey DSX.

**Note**
- This listening mode can be selected only when all the following conditions are satisfied:
  - The center speaker is connected.
  - The front high speakers are connected.
  - Powered Zone 2 is not in use.

**LFE Level**

**Dolby Digital**, **DTS**, **Multich PCM**, **Dolby TrueHD**, **DTS-HD Master Audio**, **DSD**

**–∞dB, –20dB, –10dB, or 0dB**
With these settings, you can set the level of the LFE (Low Frequency Effects) channel individually for each input source.

If you find that low-frequency effects are too loud when using one of these sources, change the setting to –20 dB or –∞ dB.

*1 Dolby Digital and Dolby Digital Plus sources
*2 DTS and DTS-HD High Resolution sources
*3 DSD (Super Audio CD) sources
Source Setup

Main menu Source Setup

Items can be set individually for each input selector.

Preparation
Press the input selector buttons to select an input source.

Audyssey

The tone for each speaker is set automatically by Audyssey 2EQ® Room Correction and Speaker Setup. To enable the following settings, you must first perform the Room Correction and Speaker Setup (➔ page 34).

- These technologies cannot be used when:
  - a pair of headphones is connected, or
  - either Pure Audio (European, Australian and Asian models) or Direct listening mode is selected.

- Dynamic EQ
  - Off
  - On:
    - Audyssey Dynamic EQ® becomes active. The Dynamic EQ indicator will light.

With Audyssey Dynamic EQ, you can enjoy great sound even when listening at low volume levels. Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. It does so by selecting the correct frequency response and surround volume levels moment-by-moment so that the content sounds the way it was created at any volume level — not just at reference level.

- Reference Level
  - Audyssey Dynamic EQ Reference Level Offset
    - 0dB:
      - This should be selected for movie contents.
    - 5dB:
      - Select this setting for content that has a very wide dynamic range, such as classical music.
    - 10dB:
      - Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.
    - 15dB:
      - Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Movies are mixed in rooms calibrated for film reference. To achieve the same reference level in a home theater system each speaker level must be adjusted so that –30 dBFS band-limited (500 Hz to 2000 Hz) pink noise produces 75 dB sound pressure level at the listening position. A home theater system automatically calibrated by Audyssey 2EQ will play at reference level when the master volume control is set to the 0 dB position. At that level you can hear the mix as the mixers heard it.

Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Audyssey Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

Note
- If “Dynamic EQ” setting is set to “Off”, this technology cannot be used.

- Dynamic Volume
  - Off
  - Light:
    - Activates Light Compression Mode.
  - Medium:
    - Activates Medium Compression Mode.
  - Heavy:
    - Activates Heavy Compression Mode. This setting affects volume the most. It quiets the loud parts, such as explosions, and boosts the quiet parts so they can be heard.

Note
- If you want to use Audyssey Dynamic EQ or Audyssey Dynamic Volume® with THX listening modes, set the “Loudness Plus” setting to “Off” and set “Preserve THX Settings” to “No” (➔ page 56).
- If you make Dynamic Volume active, “Dynamic EQ” is set to “On”. The Dynamic Vol indicator will light.
- When “Dynamic EQ” is set to “Off”, “Dynamic Volume” is automatically switched to “Off”.

Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Audyssey Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

Note
- If “Dynamic EQ” setting is set to “Off”, this technology cannot be used.

- Dynamic Volume
  - Off
  - Light:
    - Activates Light Compression Mode.
  - Medium:
    - Activates Medium Compression Mode.
  - Heavy:
    - Activates Heavy Compression Mode. This setting affects volume the most. It quiets the loud parts, such as explosions, and boosts the quiet parts so they can be heard.

Note
- If you want to use Audyssey Dynamic EQ or Audyssey Dynamic Volume® with THX listening modes, set the “Loudness Plus” setting to “Off” and set “Preserve THX Settings” to “No” (➔ page 56).
- If you make Dynamic Volume active, “Dynamic EQ” is set to “On”. The Dynamic Vol indicator will light.
- When “Dynamic EQ” is set to “Off”, “Dynamic Volume” is automatically switched to “Off”.

- Dynamic EQ
  - Off
  - On:
    - Audyssey Dynamic EQ® becomes active. The Dynamic EQ indicator will light.

With Audyssey Dynamic EQ, you can enjoy great sound even when listening at low volume levels. Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. It does so by selecting the correct frequency response and surround volume levels moment-by-moment so that the content sounds the way it was created at any volume level — not just at reference level.

- Reference Level
  - Audyssey Dynamic EQ Reference Level Offset
    - 0dB:
      - This should be selected for movie contents.
    - 5dB:
      - Select this setting for content that has a very wide dynamic range, such as classical music.
    - 10dB:
      - Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.
    - 15dB:
      - Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Movies are mixed in rooms calibrated for film reference. To achieve the same reference level in a home theater system each speaker level must be adjusted so that –30 dBFS band-limited (500 Hz to 2000 Hz) pink noise produces 75 dB sound pressure level at the listening position. A home theater system automatically calibrated by Audyssey 2EQ will play at reference level when the master volume control is set to the 0 dB position. At that level you can hear the mix as the mixers heard it.
Advanced Operations

IntelliVolume

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 \( \uparrow \downarrow \) to set the level.

If a component is noticeably louder than the others, use \( \downarrow \) to reduce its input level. If it’s noticeably quieter, use \( \uparrow \) to increase its input level.

Note

\( \uparrow \downarrow \) IntelliVolume does not work for Zone 2/3.

A/V Sync

When using progressive scanning on your Blu-ray Disc/DVD player, you may find that the picture and sound are out of sync. With this setting, you can correct this by delaying the audio signals.

To view the TV picture while setting the delay, press ENTER.

To return to the previous screen, press RETURN.

The range of values you can adjust will depend on whether your TV or display supports HDMI Lip Sync and if the “LipSync” setting is set to “On” or not (➔ page 67).

Note

\( \uparrow \downarrow \) A/V Sync is disabled when the Pure Audio (European, Australian and Asian models) or Direct listening mode is used with an analog input source.

\( \uparrow \downarrow \) This setting cannot be used with the NET input selector.

About Audyssey Dynamic EQ®

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance, and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works well by itself. However, if Audyssey 2EQ® is on, the two technologies work in tandem to provide well-balanced sound for every listener at any volume level.

About Audyssey Dynamic Volume®

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression and dialog clarity remain the same whether watching movies, flipping between television channels or changing from stereo to surround sound content.

Name Edit

You can enter a custom name for each individual input selector and radio preset for easy identification. When entered, the custom name will appear on the display. The custom name is edited using the keyboard screen.

1 Use \( \uparrow \downarrow \leftrightarrow \rightarrow \) to select a character, and then press ENTER.

Repeat this step to enter up to 10 characters.

2 To store a name when you’re done, be sure to select “OK” by using \( \uparrow \downarrow \leftrightarrow \rightarrow \), and then press ENTER.

Name input area

Name Edit

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About Audyssey Dynamic Volume®

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Advanced Operations

Picture Adjust
Using Picture Adjust, you can adjust the picture quality and reduce any noise appearing on the screen. To view the TV picture while setting, press ENTER. To return to the previous screen, press RETURN.

Wide Mode
This setting determines the aspect ratio.

- 4:3:

- Full:

- Zoom:

- Wide Zoom:

- Auto:

   According to the input signals and monitor output setting, the AV receiver automatically selects the “4:3”, “Full”, “Zoom” or “Wide Zoom” mode. See “Monitor Out” for details on the monitor output setting (➔ page 52).

Tip
- To name a radio preset, select AM or FM, and then select the preset (➔ page 32).
- To restore a name to its default, erase all characters with CLR, select “OK” and then press ENTER.

Note
- This setting cannot be used for the NET and USB input selectors.

Tip
- This can also be performed by using +10 on the remote controller.
- Press CLR on the remote controller to delete all the characters you have input.

Game Mode
If video signal delay occurs during playback on a video component (i.e., game console), select the corresponding input source and set the “Game Mode” setting to “On”. The delay will decrease but in return the picture quality will become poor.

Picture Mode
- Custom:
  All settings can be performed manually.
- Cinema:
  Select when the picture source is a movie or alike.
- Game:
  Select when the video source is a game console.
- Through:
  Does not adjust picture quality (changes resolution).
- Direct:
  Does not adjust picture quality (does not change resolution). The video coming from an analog input and output by HDMI output(s) is processed in the same way as “Through”.

With “Picture Mode”, you can change the following settings to be suitable for the movie or game screen by one operation: “Game Mode”, “Film Mode”, “Edge Enhancement”, “Noise Reduction”, “Brightness”, “Contrast”, “Hue”, “Saturation” or “Color Temperature”.

Space:
Enters a space character.
Shift:
Toggles between lower and upper case characters.
(Left)/ (Right):
Moves the cursor left or right in the Name input area.
Back Space:
Moves the cursor backward and deletes one character.
OK:
Confirms your entry.

Tip
- To name a radio preset, select AM or FM, and then select the preset (➔ page 32).
- To restore a name to its default, erase all characters with CLR, select “OK” and then press ENTER.

Note
- This setting cannot be used for the NET and USB input selectors.
**Film Mode**

- **Video:**
  “Film Mode” detection is not applied and the input signal is handled as a video source.

- **Auto:**
  Detects whether the input signal is a video or a movie. If it is a movie, the appropriate conversion is applied.

The AV receiver will adjust to the picture source, automatically converting it to the appropriate progressive signal and reproducing the natural quality of the original picture.

**Edge Enhancement**

- **Off**
- **Low**
- **Mid**
- **High**

With this setting, you can make the picture appear sharper.

**Noise Reduction**

- **Off**
- **Low**
- **Mid**
- **High**

With this setting, you can reduce noise appearing on the screen. Select the desired level.

**Brightness**

- **–50 to 0 to +50**

With this setting, you can adjust the picture brightness. “–50” is the darkest. “+50” is the brightest.

**Contrast**

- **–50 to 0 to +50**

With this setting, you can adjust contrast. “–50” is the least. “+50” is the greatest.

**Hue**

- **–50 to 0 to +50**

With this setting, you can adjust the color hue between “–50” and “+50”.

**Saturation**

- **–50 to 0 to +50**

With this setting, you can adjust saturation. “–50” is the weakest color. “+50” is the strongest color.

**Color Temperature**

- **Warm**
- **Normal**
- **Cool**

With this setting, you can adjust the color temperature.

**Note**

- “Picture Adjust” cannot be used when:
  - The NET input selector is selected, or
  - “Monitor Out” is set to “Sub”.

  *1 This procedure can also be performed on the remote controller by using the Quick Setup (➔ page 47).

  *2 When the “Picture Mode” setting is set to anything other than “Custom”, this setting cannot be used.

  *3 If the “Resolution” setting is set to “4K Upscaling” (➔ page 52), this setting is fixed at “Off”.

  *4 Press CLR if you want to reset to the default value.

  *5 If the “Game Mode” setting is set to “On”, this setting is fixed at “Off”.

  *6 When a 3D video source is input, “Wide Mode” is fixed to “Full”.

  *7 When “Metadata Compatible” is enabled, “Picture Mode” is fixed to “Direct” (➔ page 56).

---

**Audio Selector**

**Audio Selector**

- **ARC:**
  The audio signal from your TV tuner can be sent to HDMI OUT MAIN of the AV receiver.*1

  With this selection, the TV’s audio can be automatically selected as a priority among other assignments.

- **HDMI:**
  This can be selected when HDMI IN has been assigned as an input source. If both HDMI (HDMI IN) and digital audio inputs (COAXIAL IN or OPTICAL IN) have been assigned, HDMI input is automatically selected as a priority.

- **COAXIAL:**
  This can be selected when COAXIAL IN has been assigned as an input source. If both coaxial and HDMI inputs have been assigned, coaxial input is automatically selected as a priority.

- **OPTICAL:**
  This can be selected when OPTICAL IN has been assigned as an input source. If both optical and HDMI inputs have been assigned, optical input is automatically selected as a priority.

- **Analog:**
  The AV receiver always outputs analog signals.

  You can set priorities of audio output when there are both digital and analog inputs.

**Note**

- This setting can be made only for an input source that is assigned to HDMI IN, COAXIAL IN, or OPTICAL IN.

  *1 This setting cannot be used with the NET and USB input selectors.

  *2 When using the Whole House Mode, “Audio Selector” is fixed to “Analog”.

  *3 You can select “ARC” if you select the TV/CD input selector. But you cannot if you’ve selected “Off” in the “Audio Return Channel” setting (➔ page 66).
Setting the Incoming Digital Signal (Fixed Mode)

- **Fixed Mode**
  - **Off**:
    The format is detected automatically. If no digital input signal is present, the corresponding analog input is used instead.
  - **PCM**:
    Only 2-channel PCM format input signals will be heard. If the input signal is not PCM, the **PCM** indicator will flash and noise may also be produced.
  - **DTS**:
    Only DTS (but not DTS-HD) format input signals will be heard. If the input signal is not DTS, the **dts** indicator will flash and there will be no sound.

When “HDMI”, “COAXIAL” or “OPTICAL” is selected in the “Audio Selector” setting, you can then specify the signal type in “Fixed Mode”.

Normally, the AV receiver detects the signal format automatically. However, if you experience either of the following issues when playing PCM or DTS material, you can manually set the signal format to PCM or DTS.
- If the beginnings of tracks from a PCM source are cut off, try setting the format to PCM.
- If noise is produced when fast forwarding or reversing a DTS CD, try setting the format to DTS.

**Note**
- The setting will be reset to “Off” when you change the setting in “Audio Selector”.

---

### Listening Mode Preset

1. Use the arrow keys to select the input source that you want to set, and then press ENTER.

   **Main menu**

   **Listening Mode Preset**

   ![Listening Mode Preset Menu](image)

   You can assign a default listening mode to each input source that will be selected automatically when you select each input source. For example, you can set the default listening mode to be used with Dolby Digital input signals. You can select other listening modes during playback, but the mode specified here will be resumed once the AV receiver has been set to standby.

2. Use the arrow keys to select the signal format that you want to set, and then use the arrow keys to select a listening mode.

   Only listening modes that can be used with each input signal format can be selected (pages 37 to 43). The “Last Valid” option means that the listening mode selected last will be used.

   The “Straight Decode” option means that straight decoding listening mode (Dolby Digital, DTS, etc.) is selected.

   **Note**
   - For the “AM” or “FM” input selector, only “Analog” will be available.
   - For the “NET” or “USB” input selector, only “Digital” will be available.

---

### Analog/PCM/Digital

With this setting, you can specify the listening mode used when an analog (CD, TV, LD, VHS, MD, turntable, radio, cassette, cable, satellite, etc.) or PCM digital (CD, DVD, etc.) audio signal is played.

**Note**
- For the “AUX”, “EXTRA1”, and “EXTRA2” input selectors, only “PCM” is available.

### Mono/Multiplex Source

With this setting, you can specify the listening mode used when a mono digital audio signal is played (DVD, etc.).

### 2ch Source

With this setting, you can specify the listening mode used when 2-channel (2/0) stereo digital sources, such as Dolby Digital or DTS, are played.

### Dolby D/Dolby D Plus/TrueHD

With this setting, you can specify the listening mode used when Dolby Digital or Dolby Digital Plus format digital audio signals are played (DVD, etc.). Specifies the default listening mode for Dolby TrueHD sources, such as Blu-ray or HD DVD (input via HDMI).
■ DTS/DTS-ES/DTS-HD
With this setting, you can specify the listening mode used when DTS or DTS-HD High Resolution format digital audio signals are played (DVD, LD, CD, etc.). Specifies the default listening mode for DTS-HD Master Audio sources, such as Blu-ray or HD DVD (input via HDMI).

■ Other Multich Source
Specifies the default listening mode for multichannel PCM sources from HDMI IN such as DVD-Audio, and DSD multichannel sources such as Super Audio CD.

### Volume Setup

#### Volume Display
- **Absolute:** Displayed range is Min. 1 to 99, Max.
- **Relative (THX):** Displayed range is $-\infty \text{dB}, -81\text{dB}$ to $+18\text{dB}$.

With this setting, you can choose how the volume level is displayed.

The absolute value 82 is equivalent to the relative value 0 dB.

**Note**
- If the absolute value is set to 82, “82Ref” will appear on the display and the THX indicator will flash.

#### Muting Level
- $-\infty \text{dB}$ (fully muted), $-50\text{dB}$ to $-10\text{dB}$ in 10 dB steps.

This setting determines how much the output is muted when the muting function is used (→ page 46).

#### Maximum Volume
- **Off,** 50 to 99 (Absolute display)
- **Off,** $-32\text{dB}$ to $+17\text{dB}$ (Relative display)

With this setting, you can limit the maximum volume.

To disable this setting, select “Off”.

■ Power On Volume
- **Last,** Min, 1 to 99 or Max (Absolute display)
- **Last,** $-\infty \text{dB}, -81\text{dB}$ to $+18\text{dB}$ (Relative display)

With this preference, you can specify the volume setting to be used each time the AV receiver is turned on.

To use the same volume level that was used when the AV receiver was turned off, select “Last”.

The “Power On Volume” setting cannot be set higher than the “Maximum Volume” setting.

■ Headphone Level
- $-12\text{dB}$ to $0\text{dB}$ to $+12\text{dB}$

With this setting, you can specify the headphone volume relative to the main volume. This is useful if there’s a volume difference between your speakers and your headphones.
OSD Setup

- **On Screen Display**
  - **On**
  - **Off**
  
  This preference determines whether operation details are displayed on-screen when an AV receiver function is adjusted.

  Even when “On” is selected, operation details may not be output if the input source is connected to an HDMI IN.

- **Language**
  - **(North American models)**
    - English, Deutsch, Français, Español, Italiano, Nederlands, Svenska
  - **(European, Australian, Asian and Taiwanese models)**
    - English, Deutsch, Français, Español, Italiano, Nederlands, Svenska, 中文
  
  This setting determines the language used for the on-screen menus.

- **Screen Saver**
  - **3min, 5min, 10min**
  - **Off**
  
  With this setting, you can set the time until the screen saver activates itself. Once active, the screen saver will go off and the screen will return to its previous state if the AV receiver is operated in any way.

Hardware Setup

**Tuner**

- **AM/FM Frequency Step (North American and Taiwanese models)**
  - 10kHz/200kHz
  - 9kHz/50kHz
  
  Select the frequency step according to your area.

- **AM Frequency Step (European, Australian and Asian models)**
  - 10kHz
  - 9kHz
  
  Select the frequency step according to your area. For AM/FM tuning to work properly, you must specify the AM/FM frequency step used in your area.

  **Note**
  - When this setting is changed, all radio presets will be deleted.

**HDMI Control(RIHD)**

- **Off**
- **On**

Turn this setting on to allow RIHD-compatible components connected via HDMI to be controlled by the AV receiver (➔ page 92).

**Note**

- When the setting is set to “On” and the menu is closed, the names of connected RIHD-compatible components and “RIHD On” are displayed on the AV receiver.
  *Search...* → “(name)” → “RIHD On”
  When the AV receiver cannot receive the name of the component, it is displayed as “Player*” or “Recorder*”, etc. (* shows up and indicates the number of components, when two or more are received).

- When an RIHD-compatible component is connected to the AV receiver via an HDMI cable, the name of the connected component is displayed on the AV receiver display. For example, while you are watching TV broadcasting, if you operate a Blu-ray Disc/DVD player (being powered on) with the remote control of the AV receiver, the name of the Blu-ray Disc/DVD player will be displayed on the AV receiver.

- Set it to “Off” when a connected piece of equipment is not compatible or it is unclear whether the equipment is compatible or not.

- If operation is not normal when set to “On”, change the setting to “Off”.

- Refer to the connected component’s instruction manual for details.

- When the “HDMI Control(RIHD)” setting is set to “On”, the power consumption on standby mode slightly increases. (Depending on the TV status, the AV receiver will enter standby mode as usual.)

- The RIHD control does not support HDMI OUT SUB. Use HDMI OUT MAIN instead.

- When the source equipment is connected with the RI connection, it may malfunction if “HDMI Control(RIHD)” is set to “On”.

- **Main Menu**
- **Hardware Setup**

1 2 3 4 5

“Setup”
■ HDMI Through

- Off
- BD/DVD, CBL/SAT, STB/DVR, GAME, PC, AUX, TV/CD, EXTRA1, EXTRA2:
  Selects the input source for which the HDMI Through function is enabled.
- Last:
  The HDMI Through function is activated on the input source selected at the time of setting the AV receiver to standby mode.

When enabling the HDMI Through function, regardless of whether the AV receiver is on or in standby, both audio and video streams from an HDMI input will be output to the TV or other components via HDMI connection. The HDMI indicator will be dimly-lit in standby mode. Note that the indicator may not light under certain conditions (➔ page 51).

This setting is fixed to “Auto” automatically when the above “HDMI Control(RIHD)” setting is set to “On”, resulting in automatic input source selection.

Note
- Only an input source assigned to an HDMI IN via “HDMI Input” setting is enabled (➔ page 52).
- The power consumption in standby mode will increase during the HDMI Through function; however in the following cases, the power consumption can be saved:
  - The TV is in standby mode.
  - You are watching a TV program.
- Refer to the connected component’s instruction manual for details.
- Depending on the connected component, the correct input source may not be selected with the setting fixed to “Auto”.
- This setting is set to “Off” automatically when the “HDMI Control(RIHD)” setting is set to “Off”.

■ Audio TV Out

- Off
- On

This preference determines whether the incoming audio signal is output from the HDMI output. You may want to turn this preference on if your TV is connected to the HDMI output and you want to listen to the audio from a connected component through your TV’s speakers. Normally, this should be set to “Off”.

Note
- If “On” is selected and the audio can be output from the TV, the AV receiver will output no sound through its speakers. In this case, “TV Speaker” appears on the AV receiver’s display by pressing DISPLAY.
- When “HDMI Control(RIHD)” is set to “On”, this setting is fixed to “Auto”.
- With some TVs and input signals, no sound may be output even when this setting is set to “On”.
- When “Audio TV Out” or “HDMI Control(RIHD)” is set to “On” and you’re listening through your TV’s speakers (➔ page 16), turning up the AV receiver’s volume control will make the sound be output from the AV receiver’s front left and right speakers. To stop the AV receiver’s speakers producing sound, change the settings, change your TV’s settings, or turn down the AV receiver’s volume.
- Listening mode cannot be changed when this setting is set to “On” and the input source is not HDMI.

■ Audio Return Channel (ARC)

- Off
- Auto:
  The audio signal from your TV tuner can be sent to HDMI OUT MAIN of the AV receiver.
  The audio return channel (ARC) function allows an ARC capable TV to send the audio stream to HDMI OUT MAIN of the AV receiver. To use this function, you must select the TV/CD input selector and your TV must be ARC capable. The ARC indicator will light when the audio signal is detected. Default setting: “----”

Note
- This setting is fixed to “----” when the “HDMI Control(RIHD)” setting is set to “Off”.
- This setting is set to “Auto” automatically when the “HDMI Control(RIHD)” setting is set to “On” for the first time.
- If you set “Audio Return Channel” to “Auto”, the “Audio Selector” settings of the TV/CD input selector will be automatically switched to “ARC” (➔ page 62).

After changing the settings of the “HDMI Control(RIHD)”, “HDMI Through” or “Audio Return Channel”, turn off the power on all connected pieces of equipment and then turn them on again. Refer to the user’s manuals for all connected pieces of equipment.
### Advanced Operations

**LipSync**
- **Off**
- **On**

This function allows the AV receiver to automatically correct any delay between the video and the audio, based on the data from the connected monitor.

**Note**
- This function works only if your HDMI-compatible TV supports HDMI Lip Sync.

**InstaPrevue**

These settings apply to “InstaPrevue” of the Home menu ( página 44) and specify the preview display of HDMI video streams.

**Sub Window**
- **Multi:** Displays preview thumbnails all at once.
- **Single:** Displays preview thumbnails one-by-one.

With this setting, you can set the number of preview thumbnails displayed.

**Position**
(with “Sub Window” set to “Multi”)
- **Top, Bottom, Left, Right**
(with “Sub Window” set to “Single”)

- **Upper Left, Upper Right, Lower Left, Lower Right**

With this setting, you can set the position of preview thumbnails on the TV screen.

### Auto Standby

**Auto Standby**
- **Off**
- **On**

When “Auto Standby” is set to “On”, the ASb indicator lights and the AV receiver will automatically enter standby mode if there is no operation for 30 minutes with no audio and no video signal input.

“Auto Standby” will appear on the AV receiver’s display and OSD 30 seconds before the Auto Standby comes on.

Default setting: **On** (European, Australian and Asian models), **Off** (North American and Taiwanese models)

**Note**
- Set to “On”, the Auto Standby function may activate itself during playback with some sources.
- The Auto Standby function does not work when Zone 2/3 is on.

### Network

After modifying the network settings, you must confirm the changes by executing “Save”.

This section explains how to configure the AV receiver’s network settings manually.

If your router’s DHCP server is enabled, you don’t need to change any of these settings, as the AV receiver is set to use DHCP to configure itself automatically by default (i.e., DHCP is set to “Enable”). If, however, your router’s DHCP server is disabled (you’re for example using static IP), you’ll need to configure these settings yourself, in which case, a knowledge of Ethernet networking is essential.

**What’s DHCP?**
DHCP (Dynamic Host Configuration Protocol) is used by routers, computers, the AV receiver, and other devices to automatically configure themselves on a network.

**What’s DNS?**
The DNS (Domain Name System) translates domain names into IP addresses. For example, when you enter a domain name such as www.onkyousa.com in your Web browser, before accessing the site, your browser uses DNS to translate this into an IP address, in this case 63.148.251.142.

**MAC Address**
This is the AV receiver’s MAC (Media Access Control) address. This address cannot be changed.

**DHCP**
- **Enable**
- **Disable**

This setting determines whether or not the AV receiver uses DHCP to automatically configure its IP Address, Subnet Mask, Gateway, and DNS Server settings.

levator To be continued
**Network Standby**

- **On**
- **Off**

This setting enables or disables control over the network. When enabled, the NET indicator will be dimly-lit while the AV receiver is in standby mode. Note that the indicator may not light under certain conditions (➔ page 51).

**Note**

- When set to “On”, the power consumption slightly increases in standby mode.

**Update Notice**

- **Enable**
- **Disable**

When this setting is enabled, you will be notified if a firmware update via network is available.

**Note**

- Selecting “Never Remind me” on the notification window will switch this setting to “Disable” (➔ page 20).
- For details on the update notification, see “If the “Firmware Update Available” window appears.” (➔ page 20).

**Initial Setup**

If you skipped the initial setup wizard, for example on first-time use, you can reaccess it from here. See “Initial Setup” (➔ page 21).

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**Remote Controller Setup**

**Remote ID**

1. **Remote ID**

   - **1**, **2**, or **3**

   When several Onkyo components are used in the same room, their remote ID codes may overlap. To differentiate the AV receiver from other components, you can change its remote ID from “1”, to “2” or “3”.

   **Note**

   - If you do change the AV receiver’s remote ID, be sure to change the remote controller to the same ID (see below), otherwise, you won’t be able to control it with the remote controller.

   **Changing the remote controller’s ID**

   1. While holding down RECEIVER, press and hold down Q SETUP until the remote indicator lights (about 3 seconds).
   2. Use the number buttons to enter ID **1**, **2**, or **3**.

   The remote indicator flashes twice.

**Remote Mode Setup**

See “Looking up for Remote Control Codes” (➔ page 74).
With this preference, you can protect your settings by locking the setup menus.

**Setup**
- **Locked**
- **Unlocked**

When “**Locked**” is selected, the setup menus will be locked and you cannot change any setting.
Multi Zone

In addition to the main listening room, you can also enjoy playback in the other room, or as we call Multi Zone. And, you can select a different source for each room.

**Making Multi Zone Connections**

There are two ways you can connect Zone speakers:
1. Connect them directly to the AV receiver.
2. Connect them to an additional amplifier.

**Connecting Your Zone 2 Speakers Directly to the AV receiver**

This setup allows you to select different sources for Main room and Zone 2. This is called Powered Zone, as the Zone 2 speakers are powered by the AV receiver.

To use this setup, you must activate the Powered Zone 2 setting (➔ page 54).

**Note**
- With this setup, the volume of Zone 2 is controlled by the AV receiver.
- When Powered Zone 2 is used, playback in the main room is reduced to 5.1 channels.

**Connecting the Zone Speakers to an Additional Amplifier**

This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Zone 2/3.

**Note**
- The volume of Zone 2/3 must be set on the Zone 2/3 amplifier.
**Controlling Multi Zone Components**

- **Operating on the AV receiver**
  - To turn on Zone 2/3 and select an input source, press ZONE 2 or ZONE 3 followed by an input selector button within 8 seconds. Zone 2/3 turns on, the Z2 or Z3 indicator lights on the AV receiver’s display.
  - To select the same source as the main room’s, press ZONE 2 or ZONE 3 twice. “Z2 Sel: Source” or “Z3 Sel: Source” appears on the AV receiver’s display.
  - To turn off Zone 2/3, press ZONE 2 or ZONE 3 followed by ON/STANDBY within 8 seconds. The zone is turned off.

- **Operating on the remote controller**
  - To control Zone 2/3, you must press ZONE2 or ZONE3 on the remote controller first.

1. **Press ZONE2 or ZONE3, then point the remote controller at the AV receiver and press RECEIVER.** Zone 2/3 turns on, the Z2 or Z3 indicator lights on the AV receiver’s display.
2. **To select an input source for Zone 2/3, press ZONE2 or ZONE3, followed by an INPUT SELECTOR button.**
3. **To turn off Zone 2/3, press ZONE2 or ZONE3, followed by RECEIVER.** The zone is turned off.

**Adjusting the Volume for Zone 2**

- **Operating on the remote controller**
  - **Press ZONE2.**
  - **Use VOL△/▼.**

- **Operating on the AV receiver**
  - **Press ZONE 2 (the Z2 indicator on the AV receiver’s display flash).**
  - **Use MASTER VOLUME control within 8 seconds.**

If your Zone 2 speakers are connected to a receiver or integrated amplifier in Zone 2, use its volume control to adjust the volume.

**Muting Zone 2**

1. **Press ZONE2 followed by MUTING.**

**Tip**
- To unmute, press ZONE2 followed by MUTING again. Zone can also be unmuted by adjusting the volume.

**Note**
- Only analog input sources are output from the ZONE 2/ZONE 3 LINE OUT jacks and ZONE 2 L/R terminals. Digital input sources are not output. If no sound is heard when an input source is selected, verify that the source is connected to an analog input.
- You cannot select different AM or FM radio stations for your main room and Zone 2/3. The same AM/FM radio station will be heard in each room. Namely, if you have selected an FM station for the main room, that station will also be output in Zone 2/3.
- When you have selected NET or USB as input selector, the last selector selected will be set for Main room and Zone 2/3.
- When Zone 2/3 is activated and its input selector is selected, the power consumption of standby mode slightly increases.
- While Zone 2/3 is on, functions will not work.
- When setting the AV receiver to standby mode while Zone 2/3 is active, the Z2 or Z3 indicator is dimly lit.
- Activating Zones in the main room when the listening mode is set to Pure Audio (European, Australian and Asian models) will automatically switch it to Direct.
- “AUX”, “EXTRA1” and “EXTRA2” cannot be selected as input sources for Zone 2/3.
- When “AUX”, “EXTRA1” or “EXTRA2” is the input source of Main room and Zone 2/3 is set to share the same source, no sound will be output from Zone 2/3.
iPod/iPhone Playback via Onkyo Dock

RI Dock

With the RI Dock, you can easily play the music of your iPod/iPhone, or watch the slideshows and videos of your iPod/iPhone on a TV. In addition, the on-screen display (OSD) allows you to view, navigate, and select your iPod/iPhone model’s contents on your TV, and with the supplied remote controller, you can control your iPod/iPhone from the comfort of your sofa. You can even use the AV receiver’s remote controller to operate your iPod/iPhone.

**Note**

- Enter the appropriate remote control code before using the AV receiver’s remote controller for the first time (➔ page 75).
- Connect the RI Dock to the AV receiver with an RI cable (➔ page 18).
- Set the RI Dock’s RI MODE switch to “HDD” or “HDD/DOCK”.
- Set the AV receiver’s Input Display to “DOCK” (➔ page 45).

**System Function**

**System On**

When you turn on the AV receiver, the RI Dock and iPod/iPhone turn on automatically. In addition, when RI Dock and iPod/iPhone are on, the AV receiver can be turned on by pressing SOURCE.

**Auto Power On**

If you press the remote controller’s ➤ (Playback) while the AV receiver is on standby, the AV receiver will automatically turn on, select your iPod/iPhone as the input source, and your iPod/iPhone will start playback.

**Direct Change**

If you start iPod/iPhone playback while listening to another input source, the AV receiver will automatically switch to the input to which the RI Dock is connected.

**Other Remote Operations**

You can use the remote controller that came with the AV receiver to control other iPod/iPhone functions. The available functionality depends on the AV receiver.

**iPod/iPhone Alarm**

If you use the Alarm function on your iPod/iPhone to start playback, the AV receiver will turn on at the specified time and select your iPod/iPhone as the input source automatically.

**Note**

- Linked operations do not work with video playback or when the alarm is set to play a sound.
- If you use your iPod/iPhone with any other accessories, iPod/iPhone playback detection may not work.
- The System On function may not work depending on the RI Dock.

**Operating Notes**

- Use the AV receiver’s volume control to adjust the playback volume.
- While your iPod/iPhone is inserted in the RI Dock, its volume control has no effect.
- If you do adjust the volume control on your iPod/iPhone while it’s inserted in the RI Dock, be careful that it’s not set too loud before you reconnect your headphones.

Using the Onkyo Dock

The Dock is sold separately. Models sold are different depending on the region. For the latest information on the Onkyo Dock components, see the Onkyo web site at: http://www.onkyo.com

Before using the Onkyo Dock components, update your iPod/iPhone with the latest software, available from the Apple web site. For supported iPod/iPhone models, see the instruction manual of the Onkyo Dock.

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Controlling Other Components

Controlling Your iPod/iPhone

By pressing the REMOTE MODE button that’s been programmed with the remote control code for your Dock, you can control your iPod/iPhone in the Dock with the buttons described further in this section.

See “Entering Remote Control Codes” for details on entering a remote control code (➔ page 75).

See the Dock’s instruction manual for more information.

RI Dock

Set the RI Dock’s RI MODE switch to “HDD” or “HDD/DOCK”.

* SOURCE may not work with a remote control code (without R1). In this case, make an R1 connection and enter the remote control code 81993 (with R1).

With the RI Control

Make an R1 connection and enter the remote control code 81993 (with R1).

Set the AV receiver’s Input Display to “DOCK” (➔ page 45).

Without the RI Control

You must enter the remote control code 82990 first (➔ page 76).

RI Dock operation

Available buttons

1. TOP MENU*1
2. ▲/▼/◄/►, ENTER
3. PLAYLIST ◄/►
4. REPEAT
5. ©SOURCE*2
6. DISPLAY*3
7. MUTING
8. ALBUM +/-
9. VOL ▲▼
10. MENU
11. MODE*4

*1 TOP MENU works as the mode button when used with the DS-A2 RI Dock.

*2 This button does not turn the Onkyo DS-A2 or DS-A2X RI Dock on or off. Also, your iPod/iPhone may not respond the first time you press this button, in which case you should press it again. This is because the remote controller transmits the On and Standby commands alternately, so if your iPod/iPhone is already on, it will remain on when the remote controller transmits the On command. Similarly, if your iPod/iPhone is already off, it will remain off when the remote controller transmits the Off command.

*3 DISPLAY turns on backlight for a second.

*4 Resume mode

With the Resume function, you can resume playback of the song that was playing when you removed your iPod/iPhone from the RI Dock.
Controlling Other Components

You can use the AV receiver’s remote controller to control your other AV components. This section explains how to enter the remote control code for a component that you want to control: DVD, TV, CD, etc.

Preprogrammed Remote Control Codes

The following REMOTE MODE buttons are preprogrammed with remote control codes for controlling the components listed. You do not need to enter a remote control code to control these components. For details on controlling these components, see the indicated pages.

BD/DVD Onkyo Blu-ray Disc player (➔ page 77)
TV/CD Onkyo CD player (➔ page 76)

Looking up for Remote Control Codes

You can look up for an appropriate remote control code from the on-screen menu.

Note
• This can only be carried out using the on-screen menu.

1 Press RECEIVER followed by HOME.

2 Use ▼/▲ to select “Setup”, and then press ENTER.

3 Use ▼/▲ to select “Remote Controller Setup”, and then press ENTER.

4 Use ▼/▲ to select “Remote Mode Setup”, and then press ENTER.

5 Use ▼/▲ to select a remote mode, and then press ENTER.

6 Use ▼/▲ to select a category, and then press ENTER.

7 Use ▼/▲/◄/► to select a character, and then press ENTER.

8 Use ▼/▲ to select a brand, and then press ENTER.

If you can control the component, use ▼/▲ to select “OK”, and then press ENTER.
The on-screen menu returns to the “Remote Mode Setup” front screen.

If you cannot control the component, use ▼/▲ to select “Try next code” and press ENTER.
The next code is displayed.
### Entering Remote Control Codes

You’ll need to enter a code for each component that you want to control.

1. **Look up the appropriate remote control code in the separate Remote Control Codes list.**
   The codes are organized by category (e.g., DVD player, TV, etc.).

2. **While holding down the REMOTE MODE button to which you want to assign a code, press and hold down DISPLAY (about 3 seconds).**
   The remote indicator lights.

   **Note**
   - Remote control codes cannot be entered for **RECEIVER** and the multi zone button.
   - Only TV remote control codes can be entered for **TV**.
   - Except for **RECEIVER**, **TV**, and the multi zone button, remote control codes from any category can be assigned for the **REMOTE MODE** buttons. However, these buttons also work as input selector buttons (➔ page 23), so choose a **REMOTE MODE** button that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose **TV/CD** when entering its remote control code.

3. **Within 30 seconds, use the number buttons to enter the 5-digit remote control code.**
   The remote indicator flashes twice.
   If the remote control code is not entered successfully, the remote indicator will flash once slowly.

   **Note**
   - Though the provided remote control codes are correct at the time of release, they are subject to change.

### Remapping Colored Buttons

You can change the configuration of colored buttons, with which **REMOTE MODE** buttons are preset.

1. **While holding down the REMOTE MODE button that you want to program, press and hold down A (Red) until the remote indicator lights (about 3 seconds).**
   You can only change colored buttons for components whose codes belong to categories of the Remote Control Codes list (BD/DVD player, TV, cable set-top box, etc).

2. **Within 30 seconds, press the colored buttons in the order that you want to reassign them.**
   The button presses are assigned to each button from left to right. The remote indicator flashes twice, indicating that the sequence has been successfully assigned. If the sequence is not successfully assigned, the remote indicator will flash once slowly.

   **Tip**
   - To reset the **REMOTE MODE** buttons to their default settings, see “Resetting the REMOTE MODE Buttons” (➔ page 76).

   **Note**
   - If any other button than the colored buttons is pressed, the operation will be cancelled.
   - This operation cannot be done while the AV receiver is in Receiver mode or when ZONE 2/3 is active.
Controlling Other Components

Remote Control Codes for Onkyo Components Connected via R1

Onkyo components that are connected via R1 are controlled by pointing the remote controller at the AV receiver, not the component. This allows you to control components that are out of view, in a rack, for example.

1 Make sure the Onkyo component is connected with an R1 cable and an analog audio cable (RCA). See “Connecting Onkyo R1 Components” for details (➔ page 18).

2 Enter the appropriate remote control code for a REMOTE MODE button, by referring to the previous section.
   - 42157: Onkyo cassette tape deck with R1
   - 81993: Onkyo Dock with R1

3 Press the REMOTE MODE button, point the remote controller at the AV receiver, and operate the component.

Controlling Onkyo components without R1

If you want to control an Onkyo component by pointing the remote controller directly at it, or you want to control an Onkyo component that’s not connected via R1, use the following remote control codes:

- 30627: Onkyo DVD player without R1
- 71817: Onkyo CD player without R1
- 32900/33100/33500: Onkyo Blu-ray Disc player
- 32901/33104/33504: Onkyo HD DVD player
- 70868: Onkyo MD recorder without R1
- 71323: Onkyo CD recorder without R1
- 82990: Onkyo Dock without R1

Resetting the REMOTE MODE Buttons

You can reset a REMOTE MODE button to its default remote control code.

1 While holding down the REMOTE MODE button that you want to reset, press and hold down HOME until the remote indicator lights (about 3 seconds).

2 Within 30 seconds, press the REMOTE MODE button again.
   The remote indicator flashes twice, indicating that the button has been reset.
   Each REMOTE MODE button is preprogrammed with a remote control code. When a button is reset, its preprogrammed code is restored.

Resetting the Remote Controller

You can reset the remote controller to its default settings.

1 While holding down RECEIVER, press and hold down HOME until the remote indicator lights (about 3 seconds).

2 Within 30 seconds, press RECEIVER again.
   The remote indicator flashes twice, indicating that the remote controller has been reset.
Controlling Other Components

By pressing the REMOTE MODE button that’s been programmed with the remote control code for your component, you can control your component as described below.

For details on entering a remote control code for other components, see “Entering Remote Control Codes” (➔ page 75).

Controlling a TV

TV is preprogrammed with the remote control code for controlling a TV that supports the RIHD*1 (limited to some models). The TV must be able to receive remote control commands via RIHD and be connected to the AV receiver via HDMI. If controlling your TV via RIHD doesn’t work very well, program your TV’s remote control code into TV and use the TV remote mode to control your TV.

Use the following remote control codes:

- 11807/13100/13500: TV with RIHD

Controlling a Blu-ray Disc/DVD Player, HD DVD Player or DVD Recorder

BD/DVD is preprogrammed with the remote control code for controlling a component that supports the RIHD*1 (limited to some models). The component must be able to receive remote control commands via RIHD and be connected to the AV receiver via HDMI.

Use the following remote control codes:

- 32910/33101/33501/31612: Blu-ray Disc/DVD player with RIHD

*1 The RIHD supported by the AV receiver is the CEC system control function of the HDMI standard.
Press the appropriate REMOTE MODE button first.

### Controlling Other Components

#### DVD player / DVD recorder operation

<table>
<thead>
<tr>
<th>Available buttons</th>
<th>2</th>
<th>TOP MENU</th>
<th>8</th>
<th>©SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>A/V-/</td>
<td>ENTER</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SETUP</td>
<td>10</td>
<td>MUTING</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>➕, ➖, ➕, ➖, ➕, ➖</td>
<td>11</td>
<td>DISC +/–</td>
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<tr>
<td></td>
<td>6</td>
<td>A (Red)</td>
<td>12</td>
<td>MENU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B (Green)</td>
<td>13</td>
<td>RETURN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C (Yellow)</td>
<td>14</td>
<td>AUDIO*1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D (Blue)</td>
<td>15</td>
<td>CLR</td>
</tr>
</tbody>
</table>

- Number: 1 to 9, 0
- Number: +10*1

#### Satellite receiver / Cable receiver operation

<table>
<thead>
<tr>
<th>Available buttons</th>
<th>2</th>
<th>GUIDE</th>
<th>7</th>
<th>Number: 1 to 9, 0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>A/V-/</td>
<td>ENTER</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SETUP</td>
<td>9</td>
<td>DISPLAY</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>➕, ➖, ➕, ➖, ➕, ➖</td>
<td>10</td>
<td>MUTING</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>A (Red)</td>
<td>11</td>
<td>CH +/–</td>
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<tr>
<td></td>
<td></td>
<td>B (Green)</td>
<td>12</td>
<td>RETURN</td>
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<tr>
<td></td>
<td></td>
<td>C (Yellow)</td>
<td>13</td>
<td>AUDIO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D (Blue)</td>
<td>14</td>
<td>CLR</td>
</tr>
</tbody>
</table>

#### VCR/PVR operation

<table>
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<tr>
<th>Available buttons</th>
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<th>GUIDE</th>
<th>8</th>
<th>©SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>A/V-/</td>
<td>ENTER</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SETUP</td>
<td>10</td>
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</tr>
<tr>
<td></td>
<td>5</td>
<td>➕, ➖, ➕, ➖, ➕, ➖</td>
<td>11</td>
<td>CH +/–</td>
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<td>C (Yellow)</td>
<td>14</td>
<td>AUDIO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D (Blue)</td>
<td>15</td>
<td>CLR</td>
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- Number: 1 to 9, 0
- Number: +10

#### Cassette tape deck operation

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<tr>
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<th>8</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>➕, ➖, ➕, ➖, ➕, ➖</td>
<td>9</td>
<td>MUTING</td>
</tr>
</tbody>
</table>

#### CD player / CD recorder / MD recorder operation

<table>
<thead>
<tr>
<th>Available buttons</th>
<th>2</th>
<th>GUIDE</th>
<th>7</th>
<th>Number: 1 to 9, 0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>A/V-/</td>
<td>ENTER</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SETUP</td>
<td>9</td>
<td>DISPLAY</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>➕, ➖, ➕, ➖, ➕, ➖</td>
<td>10</td>
<td>MUTING</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>SEARCH</td>
<td>11</td>
<td>DISC +/–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REPEAT</td>
<td>12</td>
<td>CLR</td>
</tr>
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<td>RANDOM</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>MODE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note

- With some components, certain buttons may not work as expected, and some may not work at all.
- See “Controlling Your iPod/iPhone” about the operation of iPod/iPhone (→ page 73).

*1 The **RIHD** function is not supported. The **RIHD** supported by the AV receiver is the CEC system control function of the HDMI standard.
Troubleshooting

If you have any trouble using the AV receiver, look for a solution in this section. If you can’t resolve the issue yourself, contact your Onkyo dealer.

If you can’t resolve the issue yourself, try resetting the AV receiver before contacting your Onkyo dealer.

To reset the AV receiver to its factory defaults, turn it on and, while holding down CBL/SAT, press ON/STANDBY. “Clear” will appear on the AV receiver’s display and the AV receiver will enter standby mode.

Note that resetting the AV receiver will delete your radio presets and custom settings.

To reset the remote controller to its factory defaults, while holding down RECEIVER, press and hold down HOME until the remote indicator lights (about 3 seconds). Within 30 seconds, press RECEIVER again.

The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV receiver’s display when changing settings.

Power

■ Can’t turn on the AV receiver
Make sure that the power cord is properly plugged into the wall outlet. Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again.

■ The AV receiver turns off unexpectedly
The AV receiver will automatically enter standby mode when Auto Standby has been set and launches.

■ The AV receiver turns off and after restoring the power, it turns off again
The protection circuit has been activated. Remove the power cord from the wall outlet immediately. Make sure that all speaker cables and input sources are properly connected, and leave the AV receiver with its power cord disconnected for 1 hour. After that, reconnect the power cord and turn the power on. If the AV receiver turns off again, unplug the power cord and contact your Onkyo dealer.
Caution: If “CHECK SP WIRE” appears on the AV receiver’s display, the speaker cables may be shorting.

WARNING
If smoke, smell or abnormal noise is produced by the AV receiver, unplug the power cord from the wall outlet immediately and contact your Onkyo dealer.

Audio

■ There’s no sound, or it’s very quiet
Make sure that the digital input source is selected properly. Make sure that all audio connecting plugs are pushed in all the way. Make sure that the inputs and outputs of all components are connected properly. Make sure that the polarity of the speaker cables is correct, and that the bare wires are in contact with the metal part of each speaker terminal. Make sure that the input source is properly selected. Make sure that the speaker cables are not shorting. Check the volume. The AV receiver is designed for home theater enjoyment. It has a wide volume range, allowing precise adjustment. If the MUTING indicator is flashing on the AV receiver’s display, press the remote controller’s MUTING button to unmute the AV receiver.

While a pair of headphones is connected to the PHONES jack, no sound is output from the speakers. If there’s no sound from a DVD player connected to an HDMI IN, check the DVD player’s output settings, and be sure to select a supported audio format. Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off. With some DVD-Video discs, you need to select an audio output format from a menu. If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer. Make sure that none of the connecting cables are bent, twisted, or damaged. Not all listening modes use all speakers. Specify the speaker distances and adjust the individual speaker levels. Make sure that the speaker setup microphone is not still connected.
If the input signal format is set to “PCM” or “DTS”.  
Set it to “Off”.

- **Only the front speakers produce sound**
  When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound.
  In the Mono listening mode, only the front speakers output sound if the “Output Speaker” setting is set to “Left/Right”.
  Check the Speaker Configuration.

- **Only the center speaker produces sound**
  If you use the Dolby Pro Logic IIx Movie, Dolby Pro Logic IIx Music, or Dolby Pro Logic IIx Game listening mode with a mono source, such as an AM radio station or mono TV program, the sound is concentrated in the center speaker.
  In the Mono listening mode, only the center speaker output sound if the “Output Speaker” setting is set to “Center”.
  Make sure the speakers are configured correctly.

- **The surround speakers produce no sound**
  When the T-D (Theater-Dimensional), Stereo or Mono listening mode is selected, the surround speakers produce no sound.
  Depending on the source and current listening mode, not much sound may be produced by the surround speakers. Try selecting another listening mode.
  Make sure the speakers are configured correctly.

- **The center speaker produces no sound**
  When the Stereo or Mono listening mode is selected, the center speaker produces no sound.
  In the Mono listening mode, only the front speakers output sound if the “Output Speaker” setting is set to “Left/Right”.
  Make sure the speakers are configured correctly.

- **The front high and surround back speakers produce no sound**
  Depending on the current listening mode, no sound may be produced by the front high and surround back speakers. Select another listening mode.
  Depending on the sources, the sound produced by the front high and surround back speakers may be weak.
  Make sure the speakers are configured correctly.
  When Powered Zone 2 is used, playback in the main room is reduced to 5.1 channels and the front high and surround back speakers produce no sound.

- **The subwoofer produces no sound**
  When you play source material that contains no information in the LFE channel, the subwoofer produces no sound.
  Make sure the speakers are configured correctly.

- **There’s no sound with a certain signal format**
  Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.
  With some DVD-Video discs, you need to select an audio output format from a menu.
  Depending on the input signal, some listening modes cannot be selected.

- **Can’t select the Pure Audio listening mode**
  (European, Australian and Asian models) The Pure Audio listening mode cannot be selected while Zone 2/3 is on.

- **Can’t get 6.1/7.1 playback**
  If no surround back speakers and front high speakers are connected, or the Zone 2 speakers are being used, 6.1/7.1 playback is not possible.
  Depending on the number of connected speakers, it is not always possible to select all of the listening modes.

- **The speaker volume cannot be set as required**
  Check to see if a maximum volume has been set.
  If the volume level of each individual speaker has been adjusted to high positive values, then the maximum master volume possible may be reduced.
  Note that the individual speaker volume levels are set automatically after the Audyssey 2EQ® Room Correction and Speaker Setup has been performed.

- **Noise can be heard**
  Using cable ties to bundle audio cables with power cords, speaker cables, and the like may degrade the audio performance, so refrain from doing it.
  An audio cable may be picking up interference. Try repositioning your cables.

- **The Late Night function doesn’t work**
  Make sure the source material is Dolby Digital, Dolby Digital Plus, and Dolby TrueHD.
  Make sure that the “TrueHD Loudness Management” setting is not set to “On”. The Late Night function doesn’t work when this setting is disabled.

- **About DTS signals**
  When DTS program material ends and the DTS bitstream stops, the AV receiver remains in DTS listening mode and the dts indicator remains on. This is to prevent noise when you use the pause, fast forward, or fast reverse function on your player. If you switch your player from DTS to PCM, you may not hear any sound because the AV receiver does not switch formats immediately. In such case, you should stop your player for about three seconds and then resume playback.
With some CD and LD players, you won’t be able to playback DTS material properly even though your player is connected to a digital input on the AV receiver. This is usually because the DTS bitstream has been processed (e.g., output level, sampling rate, or frequency response changed) and the AV receiver doesn’t recognize it as a genuine DTS signal. In such cases, you may hear noise.

Playing DTS program material, using the pause, fast forward, or fast reverse function on your player may produce a short audible noise. This is not a malfunction.

■ The beginning of audio received by an HDMI IN can’t be heard

Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

■ There’s no sound during Whole House Mode

Make sure you’ve selected an analog audio input.

■ There’s no picture from a source connected to an HDMI IN

Reliable operation with an HDMI-to-DVI adapter is not guaranteed. In addition, video signals from a PC are not guaranteed.

When the resolution is set to any resolution not supported by the TV, no video is output from the HDMI outputs.

If the message “Resolution Error” appears on the AV receiver’s display, this indicates that your TV does not support the current video resolution and you need to select another resolution on your DVD player.

■ The on-screen menus don’t appear

On your TV, make sure that the video input to which the AV receiver is connected is selected.

■ The on-screen display does not appear

Depending on the input signal, the on-screen display may not appear when the input signal from HDMI IN is output to a device connected to HDMI OUT MAIN.

Tuner

■ Reception is noisy, FM stereo reception is noisy, or the FM STEREO indicator doesn’t light

Relocate your antenna.

Move the AV receiver away from your TV or computer.

Listen to the station in mono.

When listening to an AM station, operating the remote controller may cause noise.

Passing cars and airplanes can cause interference.

Concrete walls weaken radio signals.

If nothing improves the reception, install an outdoor antenna.

Remote Controller

■ The remote controller doesn’t work

Before operating this unit, be sure to press RECEIVER.

Make sure that the batteries are installed with the correct polarity.

Install new batteries. Don’t mix different types of batteries, or old and new batteries.

Make sure that the remote controller is not too far away from the AV receiver, and that there’s no obstruction between the remote controller and the AV receiver’s remote control sensor.

Make sure that the AV receiver is not subjected to direct sunshine or inverter-type fluorescent lights. Relocate if necessary.

If the AV receiver is installed in a rack or cabinet with colored-glass doors, the remote controller may not work reliably when the doors are closed.

Make sure you’ve selected the correct remote control mode.

When using the remote controller to control other manufacturers’ AV components, some buttons may not work as expected.

Make sure you’ve entered the correct remote control code.

Make sure to set the same ID on both the AV receiver and remote controller.
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Appendix

■ Can’t control other components
If it’s an Onkyo component, make sure that the **RI** cable and analog audio cable are connected properly. Connecting only an **RI** cable won’t be enough.

Make sure you’ve selected the correct remote controller mode.

If you’ve connected an cassette tape deck to the **TV/CD IN** jack, or an RI Dock to the **TV/CD IN** or **GAME IN** jacks, for the remote controller to work properly, you must set the input display appropriately.

If you cannot operate it, you will need to enter the appropriate remote control code.

To control another manufacturer’s component, point the remote controller at that component.

To control an Onkyo component that’s connected via **RI**, point the remote controller at the AV receiver. Be sure to enter the appropriate remote control code first.

To control an Onkyo component that’s not connected via **RI**, point the remote controller at the component. Be sure to enter the appropriate remote control code first.

The entered remote control code may not be correct. If more than one code is listed, try each one.

**RI Dock for iPod/iPhone**

■ There’s no sound
Make sure your iPod/iPhone is actually playing.

Make sure your iPod/iPhone is properly inserted in the Dock.

Make sure the AV receiver is turned on, the correct input source is selected, and the volume is turned up.

Make sure the plugs are pushed in all the way.

Try resetting your iPod/iPhone.

■ There’s no video
Make sure that your iPod/iPhone model’s TV OUT setting is set to On.

Make sure the correct input is selected on your TV or the AV receiver.

Some versions of the iPod/iPhone do not output video.

■ The AV receiver’s remote controller doesn’t control my iPod/iPhone
Make sure your iPod/iPhone is properly inserted in the Dock. If your iPod/iPhone is in a case, it may not connect properly to the Dock. Always remove your iPod/iPhone from the case before inserting it into the Dock.

The iPod/iPhone cannot be operated while it’s displaying the Apple logo.

Make sure you’ve selected the right remote mode.

When you use the AV receiver’s remote controller, point it toward your AV receiver.

If you still can’t control your iPod/iPhone, start playback by pressing your iPod/iPhone model’s Play button. Remote operation should then be possible.

Try resetting your iPod/iPhone.

Depending on your iPod/iPhone, some buttons may not work as expected.

■ The AV receiver unexpectedly selects my iPod/iPhone as the input source
Always pause iPod/iPhone playback before selecting a different input source. If playback is not paused, the Direct Change function may select your iPod/iPhone as the input source by mistake during the transition between tracks.

■ iPod/iPhone doesn’t work properly
Try reconnecting your iPod/iPhone.

■ There’s no sound
Only components connected to analog inputs can be played in Zone 2/3.

■ The Zone 2 speakers produce no sound
Powered Zone 2 cannot be used if “Speakers Type (Front)” is set to “Bi-Amp”.

Music Server and Internet Radio

■ Can’t access the server or Internet radio
Check the network connection between the AV receiver and your router or switch.

Make sure that your modem and router are properly connected, and make sure they are both turned on.

Make sure the server is up and running and compatible with the AV receiver.

Check the “Network” settings.

■ Playback stops while listening to music files on the server
Make sure your server is compatible with the AV receiver.

If you download or copy large files on your computer, playback may be interrupted. Try closing any unused programs, use a more powerful computer, or use a dedicated server.

If the server is serving large music files to several networked devices simultaneously, the network may become overloaded and playback may be interrupted. Reduce the number of playback devices on the network, upgrade your network, or use a switch instead of a hub.

■ Can’t connect to the AV receiver from a Web browser
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 a server or Internet radio station, recheck the AV receiver’s IP address on the “Network” screen.

Check the “Network” settings.
USB Device Playback

■ Can’t access the music files on a USB device

Make sure the USB device is plugged in properly. —

The AV receiver supports USB devices that support the USB mass storage device class. However, playback may not be possible with some USB devices even if they conform to the USB mass storage device class.

USB memory devices with security functions cannot be played.

■ Standby power consumption

In the following cases, the power consumption in standby mode may reach up to a maximum of 8.3 W: —

- The “HDMI Control(RIHD)” setting is set to “On”. (Depending on the TV status, the AV receiver will enter standby mode as usual.)
- The “HDMI Through” setting is set to other than “Off”.
- The “Network Standby” setting is set to “On”.

If an MHL-enabled mobile device is connected to the AUX (front) input, the power consumption in standby mode will increase.

■ The sound changes when I connect my headphones

When a pair of headphones is connected, the listening mode is set to Stereo, unless it’s already set to Stereo, Mono, Direct, or Pure Audio (European, Australian and Asian models).

■ The speaker distance cannot be set as required

The values entered may be automatically adjusted with values best-suited for your home theater.

■ The display doesn’t work

The display is turned off when the Pure Audio (European, Australian and Asian models) listening mode is selected.

■ How do I change the language of a multiplex source

Use the “Multiplex” setting in the “Audio Adjust” menu to select “Main” or “Sub”.

■ The RI functions don’t work

To use RI, you must make an RI connection and an analog audio connection (RCA) between the component and AV receiver, even if they are connected digitally.

While Zone 2/3 is selected, the RI functions don’t work.

■ The functions System On/Auto Power On and Direct Change don’t work for components connected via RI

These functions don’t work when Zone 2/3 is turned on.

■ When performing “Automatic Speaker Setup”, the measurement fails and the message “Ambient noise is too high.” is displayed.

This can be caused by a malfunction in your speaker unit. Check if the unit produces normal sounds.

■ The following settings can be made for the composite video inputs

You must use the buttons on the unit to make these settings.

On the AV receiver, press the input selector for the input source that you want to set and the SETUP button simultaneously. While holding down the input selector button, press SETUP until “Video ATT :On” appears on the AV receiver’s display. Then, release both buttons.

To turn the setting off, repeat the above process so that “Video ATT :Off” appears on the AV receiver’s display, and release the buttons.

• Video Attenuation

This setting can be made for the BD/DVD, CBL/SAT, STB/DVR, GAME or USB input.

If you have a game console connected to the composite video input, and the picture isn’t very clear, you can attenuate the gain.

Video ATT :Off: (default). Video ATT :On: Gain is reduced by 2 dB.

■ If the picture on your TV/monitor connected to the HDMI output(s) is unstable, try switching the DeepColor function off

To turn off the DeepColor function, simultaneously press the STB/DVR and ON/STANDBY buttons on the AV receiver. While holding down STB/DVR, press ON/STANDBY until “Deep Color:Off” appears on the AV receiver’s display. Then, release both buttons. To reactivate the DeepColor function, repeat the above process until “Deep Color:On” appears on the AV receiver’s display and release the buttons.

The AV receiver contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit’s malfunction. Before you record important data, make sure that the material will be recorded correctly.

Before disconnecting the power cord from the wall outlet, set the AV receiver to standby.
Important Note Regarding Video Playback

The AV receiver can upconvert component video and composite video sources for display on a TV connected to the HDMI output(s). However, if the picture quality of the source is poor, upconversion may make the picture worse or disappear altogether.
In this case, try the following:

1. **If the video source is connected to a component video input, connect your TV to COMPONENT VIDEO OUT.**
   If the video source is connected to a composite video input, connect your TV to MONITOR OUT V.

2. **On the main menu, select “Input/Output Assign”, and then select “Component Video Input” (➔ page 53).**
   If the video source is connected to COMPONENT VIDEO IN, select the relevant input selector, and assign it to “IN1”.
   If the video source is connected to a composite video input, select the relevant input selector, and assign it to “- - - - -”.

**Tip**

- To by-pass the upconversion, set the “Picture Mode” setting to “Direct” (➔ page 61).
Firmware Update

To update the firmware of the AV receiver, you can choose from the following two methods: update via network, or update via USB storage. Choose the one that best suits your environment. Before proceeding with the update, please read the corresponding explanations carefully.

■ Update via network

You need a wired Internet connection to update the firmware.

■ Update via USB storage (➔ page 87)

Please prepare a USB storage device such as a USB flash memory stick. You need at least 32 MB of available space to update the firmware.

Note

- Check the network connection before updating.
- Do not touch any cable or device connected to the AV receiver during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- Do not shutdown the power of the AV receiver while it is being updated.
- The storage media in the USB card reader may not work.
- If the USB device is partitioned, each section will be treated as an independent device.
- If the USB device contains a lot of data, the AV receiver may take a while to read it.
- Operation is not guaranteed for all USB devices, which includes the ability to power them.
- Onkyo takes no responsibility whatsoever for the loss or damage of data resulting from the use of a USB device with the AV receiver. Onkyo recommends that you back up your important music files beforehand.
- If you connect a USB hard disk drive to the USB port, Onkyo recommends that you use its AC adapter to power it.
- USB hubs and USB devices with hub functions are not supported.
- Do not connect your USB device via a USB hub.
- USB devices with security functions are not supported.

Limitation of liability

The program and accompanying online documentation are furnished to you for use at your own risk. Onkyo will not be liable and you will have no remedy for damages for any claim of any kind whatsoever concerning your use of the program or the accompanying online documentation, regardless of legal theory, and whether arising in tort or contract. In no event will Onkyo be liable to you or any third party for any special, indirect, incidental, or consequential damages of any kind, including, but not limited to, compensation, reimbursement or damages on account of the loss of present or prospective profits, loss of data, or for any other reason whatsoever.

See the Onkyo web site for latest information.

Updating the Firmware via Network

The AV receiver allows you to update the firmware using network connection on the rear panel.

Note

- Make sure your AV receiver and TV are turned on and an Ethernet cable is connected to the rear panel of the AV receiver.
- Never unplug or turn off the AV receiver while it is being updated.
- Never plug or unplug an HDMI or Ethernet cable during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- Never unplug the power cord during the update process.
- It takes up to 60 minutes to complete the firmware update.
- The AV receiver will retain all your settings after the update is finished.

Before Starting

- Set the “HDMI Control(RIHD)” setting to “Off” (➔ page 65).
- Turn off the controller device connected via Ethernet cable.
- Turn off Multi Zone if this function is present.
- Stop playback of contents from Internet Radio, iPod/iPhone, USB or servers, etc.

To be continued
Update Procedure

1. Press RECEIVER followed by HOME on the remote controller.
   The Home menu appears on the TV screen.
2. Select “Firmware Update” and press ENTER.
   Note that the “Firmware Update” option will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.
3. Select “Update via NET” and press ENTER.
4. Select “Update” and press ENTER.
   The update process will begin.
   During the update process, the on-screen display may disappear depending on the updated program. When this occurs, you can still view the update progress on the AV receiver’s display. The on-screen display will reappear after the update is complete, and upon turning the AV receiver off and on again.
5. The message “Completed!” appears on the AV receiver’s display, indicating that the update has been completed.
6. Turn off the AV receiver using ON/STANDBY on the front panel.
   Do not use RECEIVER on the remote controller. Once turned off, the AV receiver will automatically turn on again.
   Congratulations! You now have the latest firmware installed on your Onkyo AV receiver.

Troubleshooting

Case 1:
If “No Update” is displayed on the AV receiver’s display, it means that the firmware has already been updated. You do not need to do anything further.

Case 2:
If an error occurs, “Error!! *.-**” is displayed on the AV receiver’s display. (Alpha-numeric characters on the front display are denoted by asterisks.) Refer to the following table and take appropriate action.

Errors during an update via network

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-10, </code>-20</td>
<td>The Ethernet cable was not detected. Reconnect the cable properly.</td>
</tr>
</tbody>
</table>
| `-11, `-13, `-21, `-28 | Internet connection error. Check the following items:  
  • Make sure the IP address, subnet mask, gateway address, and DNS server are configured properly.  
  • Make sure the router is turned on.  
  • Make sure the AV receiver and the router are connected with an Ethernet cable.  
  • Make sure your router is configured properly. See the instruction manual of the router.  
  • If your network allows only one client connection and there is any other device already connected, the AV receiver will not be able to access the network. Consult your Internet Service Provider (ISP).  
  • If your modem does not function as a router, you will need a router. Depending on your network, you may need to configure the proxy server if necessary. See the document provided by your ISP. If you are still unable to access the Internet, the DNS or proxy server may be temporarily down. Contact your ISP. |

Others
   Retry the update procedure from the beginning. If the error persists, please contact Onkyo Support (page 88) and provide the error code.

Case 3:
If an error occurs during the update process, disconnect then reconnect the AC power cord and try again.

Case 4:
If an error occurs due to a wrong selection of input sources, turn off and on the AV receiver. Then retry the update.

Case 5:
If you do not have an Internet connection to the network, please contact Onkyo Support (page 88).
Appendix

**Updating the Firmware via USB**

The AV receiver allows you to update the firmware using a USB device.

**Note**
- Never unplug or turn off the AV receiver during the update process.
- Never plug or unplug an HDMI cable or a USB device during the update process.
- Never unplug the USB storage device containing the firmware file or the AC power cord during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- It takes up to 60 minutes to complete the firmware update.
- The AV receiver will retain all your settings after the update is finished.

**Before Starting**
- Set the “HDMI Control (RIHD)” setting to “Off” (➔ page 65).
- Turn off the controller device connected via Ethernet cable.
- Turn off Multi Zone if this function is present.
- Stop playback of contents from Internet Radio, iPod/iPhone, USB or servers, etc.
- If there is any data in the USB device, remove it first.

**Update Procedure**

1. **Connect a USB device to your PC. If there is any data in the USB device, remove it first.**
2. **Download the firmware file from the Onkyo website. The file name is as follows:**
   - ONKAVR****_************.zip
   Unzip the downloaded file. The following three files are created:
   - ONKAVR****_************.of1
   - ONKAVR****_************.of2
   - ONKAVR****_************.of3
3. **Copy the extracted files to the USB device. Be careful not to copy the zip file.**
4. **Remove the USB device from your PC and connect it to the USB port on the AV receiver.**
   When the AV receiver has two USB ports, you can use either one.
5. **Make sure the AV receiver and TV are turned on.**
   If the AV receiver is in standby mode, press ‡ ON/STANDBY on the AV receiver to light up the front display.
6. **Select the USB input source.**
   “Now Initializing...” appears on the AV receiver’s display and then the name of the USB device is displayed. It takes 20 to 30 seconds to recognize the USB device.
7. **Press RECEIVER followed by HOME on the remote controller.**
   The Home menu appears on the TV screen.
8. **Select “Firmware Update” and press ENTER.**
9. **Select “Update via USB” and press ENTER.**
10. **Select “Update” and press ENTER.**
   The update process will begin.
   During the update process, the on-screen display may disappear depending on the updated program. When this occurs, you can still view the update progress on the AV receiver’s display. The on-screen display will reappear after the update is complete, and upon turning the AV receiver off and on again.
   Do not turn off the AV receiver and do not remove the USB device during the update process.
11. **The message “Completed!” appears on the AV receiver’s display, indicating that the update has been completed.**
   Remove the USB device.
12. **Turn off the AV receiver using ‡ ON/STANDBY on the front panel.**
   Do not use ‡ RECEIVER on the remote controller.
   Once turned off, the AV receiver will automatically turn on again.
   Congratulations! You now have the latest firmware installed on your Onkyo AV receiver.
## Troubleshooting

### Case 1:
If “No Update” is displayed on the AV receiver’s display, it means that the firmware has already been updated. You do not need to do anything further.

### Case 2:
If an error occurs, “Error!! *-**” is displayed on the AV receiver’s display. (Alpha-numeric characters on the front display are denoted by asterisks.) Refer to the following table and take appropriate action.

### Errors during an update via USB

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘-10, ‘-20</td>
<td>The USB device was not detected. Make sure the USB flash memory or USB cable is properly connected to the USB port. If the USB storage device has its own power supply, use it to power the USB device.</td>
</tr>
<tr>
<td>‘-14</td>
<td>The firmware file was not found in the root folder of the USB device, or the firmware file is for another model. Retry and download the file on the support page of the web site, following the on-site instructions. If the error persists, please contact Onkyo Support and provide the error code.</td>
</tr>
<tr>
<td>Others</td>
<td>Retry the update procedure from the beginning. If the error persists, please contact Onkyo Support and provide the error code.</td>
</tr>
</tbody>
</table>

### Case 3:
If an error occurs during the update process, disconnect then reconnect the AC power cord and try again.

### Case 4:
If an error occurs due to a wrong selection of input sources, turn off and on the AV receiver. Then retry the update.
**Connection Tips and Video Signal Path**

The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your components. Use the following sections as a guide.

**Video Connection Formats**

Video components can be connected by using any one of the following video connection formats: composite video, component video, or HDMI, the latter offering the best picture quality.

**Tip**

- For optimal video performance, THX recommends that video signals pass through the system without upconversion (e.g., component video input passing through to component video output).
- To by-pass the upconversion, set the “Picture Mode” setting to “Direct” (page 61).

**“Monitor Out” set to “HDMI Main” or “HDMI Sub”**

Video input signals flow through the AV receiver as shown, with composite video and component video sources all being upconverted for the HDMI output. Use these settings if you connect either HDMI OUT MAIN or HDMI OUT SUB of the AV receiver to your TV.

The composite video and component video outputs pass through their respective input signals as they are.

**Note**

- When composite video and component video sources are upconverted for HDMI OUT SUB, only signals with a resolution of 480i/576i are output and the resolution remains the same. If your TV doesn’t support this resolution, there will be no picture (page 91).

**“Monitor Out” set to “Both”**

Video input signals flow through the AV receiver as shown, with composite video and component video sources all being upconverted for both HDMI outputs. Use this setting if you connect both HDMI OUT MAIN and HDMI OUT SUB of the AV receiver to your TV.

Note that video signals are output from both HDMI outputs at the resolution supported by both TVs.

The composite video and component video outputs pass through their respective input signals as they are.

**Note**

- When “Monitor Out” is set to “Both”, the “Resolution” setting cannot be selected.
Signal Selection

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, component video, composite video. However, for component video only, regardless of whether a component video signal is actually present, if a component video input is assigned to the input selector, that component video input will be selected. And if no component video input is assigned to the input selector, this will be interpreted as no component video signal being present.

In the Signal Selection Example shown below, video signals are present at both the HDMI and composite video inputs. However, the HDMI signal is automatically selected as the source and the video is output by the HDMI outputs.

Audio Connection Formats

Audio components can be connected by using any of the following audio connection formats: analog, optical, coaxial, or HDMI.

When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa.

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog.

Tip

*1 Depends on the “Audio TV Out” setting (➔ page 66).

*2 This is possible when “Audio Return Channel” is set to “Auto” (➔ page 66), the TV/CD input selector is selected, and your TV is ARC capable.

- When a signal is input via HDMI and the corresponding input selector is selected, the HDMI indicator lights. In the case of an optical or coaxial connection, the DIGITAL indicator lights. In the case of an analog connection, neither of the HDMI and DIGITAL indicators light.
The following tables show how video signals at different resolutions are output by the AV receiver.

### NTSC/PAL

- **Output available**: ✔

#### Video Resolution Chart

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
<th>HDMI</th>
<th>Component</th>
<th>Composite</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>1080p/24</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>1080p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>1080i</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>720p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>480p/576p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>480i/576i</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Component</td>
<td>1080p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>1080i</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>720p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>480p/576p</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>480i/576i</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

*1 Supported resolutions: [3840 × 2160 24/25/30 Hz], [4096 × 2160 24 Hz]

*2 Supported resolutions for **HDMI OUT SUB**.
Using an RIHD-compatible TV, Player, or Recorder

RIHD, which stands for Remote Interactive over HDMI, is the name of the system control function found on Onkyo components. The AV receiver can be used with CEC (Consumer Electronics Control), which allows system control over HDMI and is part of the HDMI standard. CEC provides interoperability between various components, however, operation with components other than RIHD-compatible components cannot be guaranteed.

The following components are RIHD-compatible (As of January 2012).

**TV**
- Toshiba TV
- Sharp TV

**Players/Recorders**
- Onkyo and Integra RIHD-compatible players
- Toshiba players and recorders
- Sharp players and recorders (only when used together with Sharp TV)

Models other than those mentioned above may have some interoperability if compatible with CEC, which is part of the HDMI Standard, but operation cannot be guaranteed.

**Note**
- For proper linked operations, do not connect more RIHD-compatible components than the quantities specified below, to the HDMI input terminal.
  - Blu-ray Disc/DVD players: up to three.
  - Blu-ray Disc/DVD recorders/Digital Video Recorders: up to three.
  - Cable/Satellite Set-top boxes: up to four.
- Do not connect the AV receiver to another AV receiver/AV amplifier via HDMI.
- Proper linked operations are not guaranteed when more RIHD-compatible components than the above-mentioned quantities are connected.

---

### About RIHD-compatible components

**For RIHD-compatible TV**
The following linked operations are enabled by connecting the AV receiver to an RIHD-compatible TV.
- The AV receiver will enter standby mode when the TV is set to standby.
- You can set on the menu screen of the TV to either output the audio from the speakers connected to the AV receiver, or from the speakers of the TV.
- It is possible to output the audio coming from the tuner or auxiliary input of your TV to the speakers of the AV receiver. (A connection such as an optical digital cable or similar is required in addition to the HDMI cable.)
- Input to the AV receiver can be selected with the remote controller of the TV.
- Operations such as volume adjustment or similar for the AV receiver can be performed from the remote controller of the TV.

**For RIHD-compatible players/recorders**
The following linked operations are enabled by connecting the AV receiver to an RIHD-compatible player/recorder.
- When playback is started on the player/recorder, AV receiver will switch to the HDMI input of the player/recorder that is playing back.
- Operation of the player/recorder is possible using the remote controller supplied with the AV receiver.

* Depending on the model used, not all operations may be available.

---

To be continued
## How to connect and setup

1. **Confirm the connection and settings.**
   
   1. Connect the **HDMI OUT MAIN** jack to the HDMI input jack of the TV.

   ![Diagram](image)

   - **TV, projector, etc.**
   - **DIGITAL AUDIO connection (OPTICAL)**
   - **HDMI connection**
   - **Blu-ray Disc/DVD player, etc.**

   2. Connect the audio output from the TV to the **OPTICAL IN 2** jack of the AV receiver using an optical digital cable.

   **Note**
   - When the audio return channel (ARC) function is used with an ARC capable TV, this connection is not necessary (⇒ page 66).

   3. Connect the HDMI output of the Blu-ray Disc/DVD player/recorder to the **HDMI IN 1** jack of the AV receiver.

   **Note**
   - It is necessary to assign the HDMI input when connecting the Blu-ray Disc/DVD player/recorder to other jacks (⇒ page 52). Do not assign an HDMI IN to the TV/CD selector at this time, otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.

2. **Change each item in the “HDMI” menu according to the following settings:**
   
   - **HDMI Control (RIHD): On**
   - **Audio Return Channel (ARC): Auto**

   See details of each setting (⇒ pages 65, 66).

3. **Confirm the settings.**
   
   1. Turn on the power for all connected components.
   2. Turn off the power of the TV, and confirm that the power of the connected components is turned off automatically with the link operation.
   3. Turn on the power of the Blu-ray Disc/DVD player/recorder.
   4. Start playback on the Blu-ray Disc/DVD player/recorder, and verify the following:
      - The AV receiver automatically turns on, and selects the input to which the Blu-ray Disc/DVD player/recorder is connected.
      - The TV automatically turns on, and selects the input to which the AV receiver is connected.
   5. Following the operating instructions of the TV, select “Use the TV speakers” from the menu screen of the TV, and confirm that the audio is output from the speakers of the TV, and not from the speakers connected to the AV receiver.
   6. Select “Use the speakers connected from the AV receiver” from the menu screen of the TV, and confirm that the audio is output from the speakers connected to the AV receiver, and not from the TV speakers.

   **Note**
   - Perform the above operations when you use the AV receiver for the first time, when the settings of each component are changed, when the main power of each component is turned off, when the power cable is disconnected from the power supply, or when there has been a power outage.

4. **Operate with the remote controller.**
   
   For buttons that can be operated (⇒ page 77).

   **Note**
   - Audio from DVD-Audio or Super Audio CD may not output from the TV speakers. You will be able to output the audio from the TV speakers by setting the audio output of the DVD player to 2ch PCM. (It may not be possible depending on the player models.)
   - Even if you set to output audio on the TV speakers, audio will be output from the speakers connected to the AV receiver when you adjust the volume or switch the input to the AV receiver. To output audio from the TV speakers, redo the corresponding operations on the TV.
   - In case of an **RIHD** connection with **RI** and **RI** audio control compatible components, do not connect the **RI** cable at the same time.
   - On the TV, when you select anything other than the HDMI jack to which the AV receiver is connected, the input on the AV receiver will be switched to “TV/CD”.
   - The AV receiver will automatically power on in conjunction when it determines it to be necessary. Even if the AV receiver is connected to an **RIHD** compatible TV or player/recorder, it will not power on if it is not necessary. It may not power on in conjunction when the TV is set to output audio from the TV.
   - Linked functions with the AV receiver may not work depending on the component model connected. In such cases, operate the AV receiver directly.
About HDMI

Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components. With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio (2-channel PCM, multichannel digital audio, and multichannel PCM).

The HDMI video stream (i.e., video signal) is compatible with DVI (Digital Visual Interface)*1, so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (This may not work with some TVs and displays, resulting in no picture.) The AV receiver uses HDCP (High-bandwidth Digital Content Protection)*2, so only HDCP-compatible components can display the picture.

The AV receiver’s HDMI interface is based on the following:
- Audio Return Channel
- 3D
- x.v.Color
- DeepColor
- Lip Sync
- DTS-HD Master Audio
- DTS-HD High Resolution Audio
- Dolby TrueHD
- Dolby Digital Plus
- DSD and Multichannel PCM

<table>
<thead>
<tr>
<th>Supported Audio Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-channel linear PCM (32–192 kHz, 16/20/24 bit)</td>
</tr>
<tr>
<td>• Multichannel linear PCM (up to 7.1 ch, 32–192 kHz, 16/20/24 bit)</td>
</tr>
<tr>
<td>• Bitstream (DSD, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio)</td>
</tr>
</tbody>
</table>

Your Blu-ray Disc/DVD player must also support HDMI output of the above audio formats.

About Copyright Protection

The AV receiver supports HDCP (High-bandwidth Digital Content Protection)*2, a copy-protection system for digital video signals. Other devices connected to the AV receiver via HDMI must also support HDCP.

*1 DVI (Digital Visual Interface): The digital display interface standard set by the DDWG*3 in 1999.

*2 HDCP (High-bandwidth Digital Content Protection): The video encryption technology developed by Intel for HDMI/DVI. It’s designed to protect video content and requires a HDCP-compatible device to display the encrypted video.

*3 DDWG (Digital Display Working Group): Lead by Intel, Compaq, Fujitsu, Hewlett Packard, IBM, NEC, and Silicon Image, this open industry group’s objective is to address the industry’s requirements for a digital connectivity specification for high-performance PCs and digital displays.

Note

• 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.

• 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.
Network/USB Features

Connecting to the Network

The following diagram shows how you can connect the AV receiver to your home network. In this example, it’s connected to a LAN port on a router, which has a 4-port 100Base-TX switch built-in.

![Diagram of network connection]

**Network Requirements**

- **Ethernet Network**
  For the best results, a 100Base-TX switched Ethernet network is recommended. Although it’s possible to play music on a computer that’s connected to the network wirelessly, playback may be unreliable, so it is recommended to use wired connections.

- **Ethernet Router**
  A router manages the network, data-routing and supplying of IP addresses. Your router must support the following:
  - NAT (Network Address Translation). NAT allows several networked computers to access the Internet simultaneously via a single Internet connection. The AV receiver needs Internet access for Internet radio.
  - DHCP (Dynamic Host Configuration Protocol). DHCP supplies IP addresses to the network devices, allowing them to configure themselves automatically.
  - A router with a built-in 100Base-TX switch is recommended.
  Some routers have a built-in modem, and some Internet Service Providers (ISP) require you to use specific routers. Please consult your ISP or computer dealer if you’re unsure.

- **CAT5 Ethernet cable**
  Use a shielded CAT5 Ethernet cable (straight-type) to connect the AV receiver to your home network.

- **Internet Access (for Internet radio)**
  To receive Internet radio, your Ethernet network must have Internet access. A narrowband Internet connection (e.g., 56K modem, ISDN) will not provide satisfactory results, so a broadband connection is strongly recommended (e.g., cable modem, xDSL modem, etc.). Please consult your ISP or computer dealer if you’re unsure.

**Note**

- To receive Internet radio with the AV receiver, your broadband Internet connection must be working and able to access the Web.

Consult your ISP if you have any problems with your Internet connection.

- The AV receiver uses DHCP to configure its network settings automatically. If you want to configure these settings manually, see “Network” (➔ page 67).
- The AV receiver does not support PPPoE settings, so if you have a PPPoE-type Internet connection, you must use a PPPoE-compatible router.
- Depending on your ISP, you may need to specify a proxy server to use Internet radio. If your computer is configured to use a proxy server, use the same settings for the AV receiver (➔ page 68).
Server playback

The AV receiver can play digital music files stored on a computer or media server and supports the following technologies:
- Windows Media Player 11
- Windows Media Player 12
- Windows Media Connect 2.0
- DLNA-certified media server

If the operating system of your computer is Windows Vista, Windows Media Player 11 is already installed. Windows Media Player 11 for Windows XP can be downloaded for free from the Microsoft web site.
- The computer or media server must be on the same network as the AV receiver.
- Up to 20,000 folders can be displayed, and folders may be nested up to 16 levels deep.

Note

- Depending on the media server, the AV receiver may not recognize it, or may not be able to play its music files.

Remote playback

- Windows Media Player 12
- DLNA-certified (within DLNA Interoperability Guidelines version 1.5) media server or controller device. The setting varies depending on the media server or controller devices. Refer to your devices’ instruction manual for details.

If the operating system of your personal computer is Windows 7, Windows Media Player 12 is already installed. For more information, see the Microsoft web site.

Server Requirements

Minimum system requirements for Windows Media Player 11 on Windows XP

<table>
<thead>
<tr>
<th>Operating system</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>233 MHz Intel Pentium II, Advanced Micro Devices (AMD), etc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 MB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hard disk</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 MB of free space</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD or DVD drive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modem</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.8 kbps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sound card</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-bit sound card</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super VGA (800 x 600)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video card</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 MB VRAM, DirectX 9.0b</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft ActiveSync (only when using a Windows Mobile-based Pocket PC or smartphone)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Web browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Internet Explorer 6 or Netscape 7.1</td>
</tr>
</tbody>
</table>

USB Device Requirements

- USB mass storage device class (but not always guaranteed).
- FAT16 or FAT32 file system format.
- If the storage device has been partitioned, each section will be treated as an independent device.
- Up to 20,000 folders can be displayed, and folders may be nested up to 16 levels deep.
- USB hubs and USB devices with hub functions are not supported.

Note

- If the media you connect is not supported, the message “No Storage” will be displayed.
- If you connect a USB hard disk drive to the AV receiver’s USB port, we recommend that you use its AC adapter to power it.
- The AV receiver supports USB MP3 players that support the USB Mass Storage Class standard, which allows USB devices to be connected to computers without the need for special drivers or software. Note that not all USB MP3 players support the USB Mass Storage Class standard. Refer to your USB MP3 player’s instruction manual for details.
- Protected WMA music files on an MP3 player cannot be played.
- Onkyo accepts no responsibility whatsoever for the loss or damage to data stored on a USB device when that device is used with the AV receiver. We recommend that you back up your important music files beforehand.
- MP3 players containing music files that are managed with special music software are not supported.
- Operation is not guaranteed for all USB devices, which includes the ability to power them.
- Do not connect your USB device via a USB hub. The USB device must be connected directly to the AV receiver’s USB port.
- If the USB device contains a lot of data, the AV receiver may take a while to read it.
- USB devices with security functions cannot be played.
For server playback and playback from a USB device, the AV receiver supports the following music file formats. Variable bit-rate (VBR) files are supported. However, playback times may not display correctly.

**Note**
- With remote playback, the AV receiver does not support the following music file formats: FLAC and Ogg Vorbis.
- In the case of server playback, the above-mentioned file formats may not be played depending on the server type.

### MP3 (.mp3 or .MP3)
- MP3 files must be MPEG-1/MPEG-2 Audio Layer 3 format with sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz and bitrates of between 8 kbps and 320 kbps. Incompatible files cannot be played.

### WMA (.wma or .WMA)
- WMA stands for Windows Media Audio and is an audio compression technology developed by Microsoft Corporation. Audio can be encoded in WMA format by using Windows Media® Player.
- WMA files must have the copyright option turned off.
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz and bitrates of between 8 kbps and 320 kbps, and WMA DRM are supported.
- WMA Pro/Voice formats are not supported.

### WMA Lossless (.wma or .WMA)
- Sampling rates of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz are supported.
- Quantization bit: 16 bit, 24 bit

### WAV (.wav or .WAV)
- WAV files contain uncompressed PCM digital audio.
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit

### AAC (.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP or .3G2)
- AAC stands for MPEG-2/MPEG-4 Audio.
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz and bitrates of between 8 kbps and 320 kbps are supported.

### FLAC (.flac or .FLAC)
- FLAC is a file format for lossless audio data compression.
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit

### Ogg Vorbis (.ogg or .OGG)
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz and bitrates of between 48 kbps and 500 kbps are supported. Incompatible files cannot be played.

### LPCM (Linear PCM)
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit
- Only for playback via network.

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**About DLNA**

The Digital Living Network Alliance is an international, cross-industry collaboration. Members of DLNA develop a concept of wired and wireless interoperable networks where digital content such as photos, music, and videos can be shared through consumer electronics, personal computers, and mobile devices in and beyond the home. The AV receiver complies with the DLNA Interoperability Guidelines version 1.5.
License and Trademark Information

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THX Select2 Plus

Before any home theater component can be THX Select2 Plus certified, it must pass a rigorous series of quality and performance tests. Only then can a product feature the THX Select2 Plus logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Select2 Plus requirements define hundreds of parameters, including power amplifier performance, and pre-amplifier performance and operation for both digital and analog domains. THX Select2 Plus receivers also feature proprietary THX technologies (e.g., THX Mode) which accurately translate movie soundtracks for home theater playback.

Made for iPod iPhone

iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. “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.

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Specifications

Amplifier Section

**Rated Output Power**
- **All channels:**
  - (North American) 100 watts minimum continuous power per channel, 8 ohm loads, 2 channels driven from 20 Hz to 20 kHz, with a maximum total harmonic distortion of 0.08% (FTC)
  - (Others) 7 ch × 160 W at 6 ohms, 1 kHz, 1 ch driven of 1% (IEC)

**Maximum Effective Output Power**
- (Asian) 7 ch × 175 W at 6 ohms, 1 kHz, 1 ch driven (JEITA)

**Dynamic Power**
- (IEC60268-Short-term maximum output power)
  - 240 W (3 Ω, Front)
  - 210 W (4 Ω, Front)
  - 120 W (8 Ω, Front)

**THD+N (Total Harmonic Distortion+Noise)**
- 0.08% (20 Hz - 20 kHz, half power)

**Damping Factor**
- 60 (Front, 1 kHz, 8 Ω)

**Input Sensitivity and Impedance (Unbalance)**
- 100 mV/47 kΩ (LINE)

**Rated RCA Output Level and Impedance**
- 200 mV/2.2 kΩ (LINE OUT)

**Maximum RCA Output Level and Impedance**
- 100 mV/2.2 kΩ (LINE OUT)

**Frequency Response**
- 5 Hz - 100 kHz/+1 dB, –3 dB (DSP bypass)

**Tone Control Characteristics**
- ±10 dB, 30 Hz (BASS)
- ±10 dB, 20 kHz (TREBLE)

**Signal to Noise Ratio**
- 106 dB (LINE, IHF-A)

**Speaker Impedance**
- (North American and Taiwanese) 6 Ω - 16 Ω
- (Others) 4 Ω - 16 Ω

**Component Video Frequency Response**
- 5 Hz - 100 MHz/+40 dB, –3 dB

**Video Section**

**Input Sensitivity/Output Level and Impedance**
- 1 Vp-p/75 Ω (Component Y)
- 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr)
- 1 Vp-p/75 Ω (Composite)

**Component Video Frequency Response**
- 5 Hz - 100 MHz/+40 dB, –3 dB

**Tuner Section**

**FM Tuning Frequency Range**
- (North American) 87.5 MHz - 107.9 MHz
- (Taiwanese) 87.5 MHz - 108.0 MHz
- (Others) 87.5 MHz - 108.0 MHz, RDS

**AM Tuning Frequency Range**
- 522/530 kHz - 1611/1710 kHz

**Preset Channel**
- 40

**General**

**Power Supply**
- (North American and Taiwanese)
  - AC 120 V, 60 Hz
- (European and Australian)
  - AC 230 V, 50 Hz
- (Others)
  - AC 220 - 240 V, 50/60 Hz

**Power Consumption**
- (North American and Taiwanese) 6.3 A
- (Others) 620 W

**No-sound Power Consumption**
- (North American and Taiwanese) 85 W
- (European and Australian) 80 W
- (Others)
  - 80 W (230 V)
  - 85 W (240 V)

**Stand-by Power Consumption**
- (North American and Taiwanese) 0.15 W
- (Others) 0.2 W

**Dimensions (W × H × D)**
- 435 mm × 173.5 mm × 328 mm
- 17-1/8” × 6-13/16” × 12-15/16”

**Weight**
- 11.0 kg (24.3 lbs.)

HDMI

- **Input**
  - IN 1, IN 2, IN 3, IN 4, IN 5, IN 6, IN 7, AUX INPUT

- **Output**
  - OUT MAIN, OUT SUB

- **Video Resolution**
  - 1080p

- **Audio Format**
  - Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, DSD

- **Supported**
  - 3D, Audio Return Channel, DeepColor, x.v.Color, LipSync, CEC (RIHD)

Video Inputs

- Component
  - IN
- Composite
  - BD/DVD, CBL/SAT, STB/DVR, GAME, USB

Video Outputs

- Component
  - OUT
- Composite
  - MONITOR OUT

Audio Inputs

- Digital
  - Optical: 2
- Coaxial: 2

Analog
- BD/DVD, CBL/SAT, STB/DVR, GAME, PC, TV/CD

Audio Outputs

- Analog
  - ZONE2 LINE OUT, ZONE3 LINE OUT

Subwoofer Pre Outputs
- 2

Speaker Outputs
- Main (L, R, C, SL, SR, SBL/FHL, SBR/FHR) + ZONE2 (L, R)

Phones
- 1 (6.3 ø)

Others

- Setup Mic
  - 1
- RI
  - 1
- USB
  - 1 (Front)/1 (Rear)
- Ethernet
  - 1

Specifications and features are subject to change without notice.
Using Internet Radio

Common Procedures in Internet Radio

Note
• Available services may vary depending on the region.

1 Press NET.
   A list of the network services appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.

2 Select the desired service and press ENTER.
   The top page of the selected service appears.

Using Multiple Accounts
The AV receiver supports multiple user accounts, which means you can freely switch between several logins. After registering user accounts, login is performed from the “Users” screen.

1 Press MENU while the Users screen is displayed.
   The following menu items appear:
   Add new user:
   Remove this user:
   You can either store a new user account, or delete an existing one.

Tip
• Some of the services don’t allow the use of multiple user accounts.
• You can store up to 10 user accounts.
• To switch between accounts you must first log out from the current account, and log in again on the “Users” screen.

Pandora® internet radio –Getting Started (U.S. only) ................................................. 2
Using Rhapsody (U.S. only).......................... 3
Using the SiriusXM Internet Radio (North American only) ......................................... 4
Using Last.fm Internet Radio ....................... 5
Using Slacker Personal Radio ..................... 6
Pandora® internet radio – Getting Started (U.S. only)

Pandora is a free, personalized Internet radio service that plays the music you know and helps you discover music you’ll love.

1. Use \( \uparrow / \downarrow \) to select “I have a Pandora Account” or “I’m new to Pandora” and then press ENTER.

   If you are new to Pandora select “I’m new to Pandora”. You will see an activation code on your TV screen. Please write down this code. Go to an Internet connected computer and point your browser to www.pandora.com/onkyo

   Enter your activation code and then follow the instructions to create your Pandora account and your personalized Pandora Internet radio stations. You can create your stations by entering your favorite songs and artists when prompted. After you have created your account and stations you can return to your Onkyo receiver and press enter to begin listening to your personalized Pandora Internet radio.

   If you have an existing Pandora account, you can add your Pandora account to your Onkyo receiver by selecting “I have a Pandora Account” and logging in with your email and password.

   **Tip**

   - If you want to use multiple user accounts, see “Using Multiple Accounts” (page 1). Login can be made from the “Users” screen.

2. To play a station, use \( \uparrow / \downarrow \) to select the station from your station list, and then press ENTER.

   Playback starts and the playback screen appears.

   **Create a New Station:**

   Enter the name of a song, artist, or genre and Pandora will create a unique radio station for you based on the musical qualities of that song, artist, or genre.

   **Menu Items**

   - **I like this song:**
     Give a song “thumbs-up” and Pandora will play more music like it.
   - **I don’t like this song:**
     Give a song “thumbs-down” and Pandora will ban that song from the current station.
   - **Why is this song playing?**:
     Discover some of the musical attributes that Pandora uses to create your personal radio stations.
   - **Don’t play the song for a month:**
     If you are tired of a song, you can put the song to sleep and Pandora will not play it for one month.
   - **Create station from this artist:**
     Creates a radio station from this artist.
   - **Create station from this song:**
     Creates a radio station from this song.
   - **Rename this station:**
     Lets you rename the current radio station.
   - **Bookmark this artist:**
     Pandora will bookmark your favorite artist for your profile on www.pandora.com.
   - **Bookmark this song:**
     Pandora will bookmark the current song and allow you to buy them all from Amazon or iTunes in one step!
   - **Add to My Favorites:**
     Adds a station to My Favorites list.

   **Delete this station:**

   This will permanently delete a station from your Pandora account. All of your thumbs feedback will be lost should you choose to re-create the station with the same song or artist.

   **Create station from this song:**

   Creates a radio station from this song.

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Using Internet Radio

1 Use ▲/▼ to select “Sign in to your account” and then press ENTER.
   To use Rhapsody, you need an account. If you don’t have one yet, you can create a new account at www.rhapsody.com/onkyo
   If you have an existing Rhapsody account, select “Sign in to your account” and press ENTER.
   Enter your user name (usually your email) and password in the next keyboard screen, or in Web Setup.

2 Use ▲/▼ to select the menu, then press ENTER.
   Search:
   You can search for music by Artist, Album, or Track.
   Music Guide:
   You can play tracks from Genres, Top Artists, Top Albums, Top Tracks, New Releases, and Staff Picks.
   Rhapsody Channels:
   Listen to radio channels programmed by Rhapsody’s top-notch editors.
   Playlists:
   Play your own personal playlists.
   My Library:
   Bookmark your favorite albums and tracks from the Rhapsody catalog using My Library.
   Account Info:
   Confirm your account information.
   Sign Out:
   Sign out from your Rhapsody account.

3 Use ▲/▼ to select a channel, and press ENTER or ► to start playback.
   Playback starts and the playback screen appears.
   You can control the tracks with the buttons on the remote control.
   Enabled buttons: ■, ■, ◀, ◀, ◀, ◀, ◀, ◀, RANDOM, REPEAT

   Note
   • On Rhapsody Channels, some of the buttons don’t work.

   ■ Menu Items
   Add track to My Library:
   Bookmark currently-playing tracks.
   Add album to My Library:
   Bookmark currently-playing albums.
   Add playlist to My Library:
   Bookmark currently-playing playlists.
   Add channel to My Channels:
   Bookmark currently-playing Rhapsody radio channels.
   Add to My Favorites:
   Adds a track, channel or playlist to My Favorites list.

   Tip
   • You can remove bookmarked tracks, albums, and Rhapsody Channels from My Library.

Tip
• If you want to use multiple user accounts, see “Using Multiple Accounts” (page 1). Login can be made from the “Users” screen.
Using Internet Radio

Your Onkyo AV receiver includes a free trial of SiriusXM Internet Radio. The “Account Info” screen shows how many days are left in your trial. After the trial period expires, if you want to continue listening to the service, you must subscribe. To subscribe go to www.siriusxm.com/internetradio with your computer.

When you subscribe, you will be provided with a username and password which has to be entered into the AV receiver.

To use SiriusXM Internet Radio, you must have your AV receiver connected to the Internet. Using the remote control, follow these steps:

1. Use A/V to select “Sign In”, and then press ENTER. If you have an existing SIRIUS account, you can sign in by selecting “Sign In”. Enter your user name and password in the next keyboard screen, or in Web Setup. If you don’t know your username or password, call Sirius XM at (888) 539-7474 for assistance.

   Tip
   • If you want to use multiple user accounts, see “Using Multiple Accounts” (➔ page 1). Login can be made from the “Users” screen.

   ■ Using the keyboard screen
   1. Use A/V and ENTER to enter your user name and password.
   2. Select “OK”.
   3. Press ENTER. The “Confirm your entries” screen appears.
   4. Press ENTER.

   “Please wait...” appears and then “SiriusXM Internet Radio” screen appears which displays the category available for selection.

2. Use A/V to select the category and then press ENTER.
   The channel list screen for the selected category appears.

3. Use A/V to select the desired channel and then press ENTER.
   The playback screen for the selected channel appears and you can listen to SiriusXM Internet Radio.
   You can control the tracks with the buttons on the remote control.
   Enabled buttons:  ■,  ●, ◀, ▶
   ■ Menu Items
   Add to My Favorites:
   Adds a channel to My Favorites list.

SiriusXM Internet Radio subscriptions are sold separately and are governed by the Sirius Terms and Conditions (see www.sirius.com). Be sure to read this agreement before you purchase your subscription. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved.
Using Last.fm Internet Radio

Last.fm is a music service that learns what you love...
Your new Onkyo AV receiver is very clever. If you have a free Last.fm account, it will keep track of all the songs you’ve just played. When you visit the Last.fm website, you can see personal charts of the music you’ve enjoyed, share them with friends and see what they like, too.

With thousands of biographies, reviews and an endless choice of personalised, ad-free radio stations, Last.fm is a great way to discover music. Pick up your free Last.fm account today at www.last.fm/join

Get a subscription and you can enjoy the best of ad-free Last.fm Radio on your Onkyo AV receiver without a computer!

Recommended Radio:
Discover smart personalised recommendations that adapt as your tastes change.

Artist Radio:
Pick any artist and we’ll play you a whole station of music inspired by your choice.

My Library:
Sit back and enjoy selections from all the music you’ve heard since you joined Last.fm.

Tag Radio:
Polish funk? Death pop? Think of a style and we’ll entertain you with it for hours.

Start your free trial straight away when you create your account and see for yourself what it’s like to have the world’s music at your fingertips. Latest prices and full information are available at www.last.fm/subscribe

1 Use ▲/▼ to select “Sign in to your account”, and then press ENTER.
If you have the existing Last.fm account, you can sign in to your account to select “Sign in to your account”. Enter your user name and password in the next keyboard screen.

Using the keyboard screen
1. Use ▲/▼ and the ENTER to enter your user name and password.
2. Select “OK”.
3. Press ENTER. The “Confirm your entries” screen appears.
4. Press ENTER.
“Please wait...” appears and then “Last.fm Internet Radio” screen appears.

Tip
• If you want to use multiple user accounts, see “Using Multiple Accounts” (➔ page 1). Login can be made from the “Users” screen.

2 Use ▲/▼ to select menu and then press ENTER.
Search Station:
You can search station by Artist, Tag, or User Name.
Top Artists Station:
You can play tracks of top-rated artists.
Top Tags Station:
You can play tracks of top-rated tags.
Personal Station:
• You can play tracks from personalized station (“Your Library”, “Your Neighbourhood” and “Your Recommendations”).

Profile:
You can play tracks from “Recently Listened Tracks”, “Library” and “Neighbours”.

Account Info:
Confirm your account information.

Sign Out:
It signs out from your account.

3 Use ▲/▼ to select a station, and press ENTER or ► to start playback.
Playback starts and the playback screen appears.

Menu Items
I Love this track:
Track information is saved in Last.fm server, and playback frequency increases.
Ban this track:
Track information is saved in Last.fm server, and playback frequency reduces.
Add to My Favorites:
Adds a station to My Favorites list.

Using scrobbling control
Use ▲/▼ to select “Enable”, and then press ENTER.

* Internet radio services provided by a third party may be terminated with or without notice. Internet radio services may not be available in some areas.
Using Slacker Personal Radio

1 If you do not have an account, create one on the Slacker website (www.slacker.com) with your computer.
   If you already have a Slacker account, select “Sign in to your account” and then press ENTER.
   The keyboard screen appears. You can enter information from the remote control or the keys on the main unit.

2 If there are no mistakes in the information you have entered, use ▲/▼ to select “OK” then press ENTER.
   An account information confirmation screen appears.

3 If you do not have an account, select “Access without Sign In” and press ENTER to use a restricted version of the service.
   Note that use will be restricted.

   Tip
   • If you want to use multiple user accounts, see “Using Multiple Accounts” (➔ page 1). Login can be made from the “Users” screen.

4 Use ▲/▼ to select a menu item and then press ENTER.
   To sign out, use ▲/▼ to select “Sign out” from this screen and then press ENTER.

5 Use ▲/▼ to select a station and then press ENTER or ► to start playback from the station.
   The playback screen appears.

6 You can control the tracks with the buttons on the remote control.
   Enabled buttons: ►, II, ■, ►►

   ■ Menu Items
   Rate Song as Favorite:
   Stores information to server, making it more likely that the song will be played again.

   Ban Song:
   Stores information to server, making it less likely that the song will be played again.

   Ban Artist:
   Stores information to server, making it less likely that the songs from this artist will be played again.

   Mark Favorite:
   Adds the currently playing station to your favorites.

   Unmark Favorite:
   Deletes the currently playing station from your favorites.

   Add song to Library:
   Adds the currently playing track to your library.

   Delete song from Library:
   Deletes the currently playing track from your library.

   Add to My Favorites:
   Adds a station or song to My Favorites list.
Utilisation d’une webradio

Procédures courantes dans le menu de webradio

**Remarque**
- Les services disponibles peuvent varier en fonction de la région.

1. **Appuyez sur NET.**
   Une liste des services réseau s’affiche, et le témoin NET s’allume. S’il clignote, vérifiez que le câble Ethernet est fermement branché sur l’ampli-tuner AV.

2. **Sélectionnez le service désiré et appuyez sur ENTER.**
   La page principale du service sélectionné s’affiche.

**Utilisation de plusieurs comptes**
L’ampli-tuner AV prend en charge plusieurs comptes utilisateur, ce qui signifie que vous pouvez librement commuter entre plusieurs connexions. Après avoir enregistré des comptes utilisateur, l’identification est réalisée à partir de l’écran « Users ».

1. **Appuyez sur MENU lorsque l’écran Users est affiché.**
   Les éléments de menu suivants s’affichent :
   - Add new user :
   - Remove this user :
   Vous pouvez soit stocker un nouveau compte utilisateur, soit en supprimer un existant.

**Conseil**
- Certains des services ne permettent pas l’utilisation de plusieurs comptes utilisateur.
- Vous pouvez stocker jusqu’à 10 comptes utilisateur.
- Pour commuter entre les comptes, vous devez d’abord vous déconnecter du compte actuel, puis vous reconnectez depuis l’écran « Users ».

**Utilisation de plusieurs comptes**

**Pandora® internet Radio – Pour commencer (États-Unis uniquement)……………………………2**

**Utilisation de Rhapsody (Etats-Unis uniquement)………………………………………………3**

**Utilisation de SiriusXM Internet Radio (Amérique du Nord uniquement)…………………4**

**Utilisation de la webradio Last.fm………………5**

**Utilisation de Slacker Personal Radio …….6**
Pandora est un service de radio en ligne libre et personnalisé vous permettant de lire la musique que vous connaissez et de découvrir celle que vous aimeriez.

1 Utilisez à/v pour sélectionner « I have a Pandora Account » ou « I'm new to Pandora », puis appuyez sur ENTER.
   Si vous ne connaissez pas Pandora sélectionnez « I'm new to Pandora ». Un code d’activation apparaîtra sur l’écran de votre téléviseur. Notez ce code. Utilisez un ordinateur branché sur Internet et connectez le navigateur à www.pandora.com/onkyo
   Saisissez votre code d’activation puis suivez les instructions pour créer votre compte Pandora et vos stations webaudio Pandora personnalisées. Lorsque vous y êtes invités, vous pouvez créer vos stations en saissant vos chansons et vos artistes préférés. Après la création de votre compte et de vos stations, vous pouvez retourner à votre récepteur Onkyo et appuyez sur entrée pour écouter votre webaudio Pandora personnalisée.
   Si vous disposez d’un compte Pandora, vous pouvez ajouter votre compte Pandora à votre récepteur Onkyo en sélectionnant « I have a Pandora Account » et y accéder en entrant votre adresse e-mail et votre mot de passe.

2 Pour lire une station, utilisez à/v pour sélectionner la station dans votre liste de stations, puis appuyez sur ENTER.
   La lecture débute et l’écran de lecture s’affiche.

 horas a New Station :
   Saisissez le nom d’une chanson, d’un artiste ou d’un genre et Pandora créera une station radio unique pour vous en fonction des qualités musicales de la chanson, de l’artiste ou du genre choisi.

 ■ Eléments du menu
   I like this song :
   Acceptez la chanson et Pandora lira d’autres musiques similaires.
   I don't like this song :
   Rejetez la chanson et Pandora éliminera cette chanson de la station courante.
   Why is this song playing? :
   Découvrez certains des attributs musicaux que Pandora utilise pour créer vos stations radio personnelles.
   Don’t play the song for a month :
   Si vous en avez assez d’une chanson, vous pouvez mettre la chanson « au repos » et Pandora ne la lira plus pendant un mois.
   Create station from this artist :
   Permet de créer une station radio à partir de cet artiste.

   ▲ ▼ ▲ ▼

Delete this station :
   Ceci supprimera de façon permanente la station de votre compte Pandora. Au cas où vous décidiez de récuer la station avec les mêmes chansons ou les mêmes artistes, tous vos acceptations/rejets précédents seront perdus.
Create station from this song :
   Permet de créer une station radio à partir de cette chanson.
Rename this station :
   Vous permet de renommer la station radio actuelle.
Bookmark this artist :
Bookmark this song :
   Pandora marquera la chanson en cours et vous permettra de toutes les acheter sur Amazon ou iTunes en une étape !
Add to My Favorites :
   Permet d’ajouter une station à la liste My Favorites.

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Utilisation de Rhapsody (États-Unis uniquement)

1 Utilisez ▲/▼ pour sélectionner « Sign in to your account », puis appuyez sur ENTER.
Vous devez posséder un compte pour utiliser Rhapsody. Si vous ne disposez pas encore d’un compte, vous pouvez en créer un à partir de www.rhapsody.com/onkyo
Si vous possédez déjà un compte Rhapsody, sélectionnez « Sign in to your account », puis appuyez sur ENTER.
Saisissez votre nom utilisateur (en général votre adresse électronique) et votre mot de passe dans l’écran clavier suivant ou dans Configuration Web.

■ Utilisation de l’écran clavier
1. Utilisez ▲/▼/◄/► et ENTER pour saisir votre nom d’utilisateur et votre mot de passe.
2. Sélectionnez « OK ».
3. Appuyez sur ENTER. L’écran « Confirm your entries » s’affiche.
4. Appuyez sur ENTER.

Conseil
• Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (⇒ page 1).
L’identification peut être réalisée à partir de l’écran « Users ».

2 Utilisez ▲/▼ pour sélectionner le menu, puis appuyez sur ENTER.
Search :
Vous pouvez rechercher des morceaux par artiste, par album ou par piste.
Music Guide :
Vous pouvez lire des pistes à partir des genres, des meilleurs artistes, des meilleurs albums, des meilleures pistes, des nouveautés et des sélections du personnel.
Rhapsody Channels :
Écoutez les canaux de radio programmée par les meilleurs éditeurs de Rhapsody.
Playlists :
Permet de jouer vos listes de lecture personnelles.
My Library :
Marquez vos albums et vos pistes personnelles dans le catalogue de Rhapsody à l’aide de My Library.
Account Info :
Vérifiez les informations de votre compte.
Sign Out :
Déconnectez-vous de votre compte Rhapsody.

3 Utilisez ▲/▼ pour sélectionner un canal, puis appuyez sur ENTER ou ► pour démarrer la lecture.
La lecture débute et l’écran de lecture s’affiche.
Vous pouvez contrôlez les pistes avec les touches sur la télécommande.
Boutons activés : ◄, ■, ◀, ◁, ◀◀, ◀▶, ◀◀◀, ◀◀▶, RANDOM, REPEAT

Remarque
• Sur les canaux Rhapsody, certaines touches ne fonctionnent pas.

■ Eléments du menu
Add track to My Library :
Marquez les pistes en cours de lecture.
Add album to My Library :
Marquez les albums en cours de lecture.
Add playlist to My Library :
Marquez les listes de lecture en cours de lecture.
Add to My Favorites :
Permet d’ajouter une piste, un canal ou une liste de lecture à la liste My Favorites.

Conseil
• Vous pouvez supprimer des pistes, des albums et des canaux Rhapsody marqués de My Library.

Lorsque vous vous inscrivez, vous devez fournir un nom est un mot de passe utilisateur qui doivent être saisis dans l’ampli-tuner AV.

Pour utiliser SiriusXM Internet Radio, l’ampli-tuner AV doit être connecté à Internet. Suivez les étapes ci-dessous à l’aide de la télécommande :

1 Utilisez ▲/▼ pour sélectionner « Sign In », puis appuyez sur ENTER. Si vous possédez déjà un compte SIRIUS, vous pouvez y accéder en sélectionnant « Sign In ». Saisissez votre nom utilisateur et votre mot de passe dans l’écran clavier suivant ou dans Configuration Web. Si vous ne connaissez pas votre nom d’utilisateur ou votre mot de passe, appelez Sirius XM au (888) 539-7474 pour obtenir une assistance.

   **Conseil**

   • Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (➔ page 1). L’identification peut être réalisée à partir de l’écran « Users ».

   ■ Utilisation de l’écran clavier

   1. Utilisez ▲/▼/◄/► et ENTER pour saisir votre nom d’utilisateur et votre mot de passe.
   2. Sélectionnez « OK ». 
   3. Appuyez sur ENTER. L’écran « Confirm your entries » s’affiche.
   4. Appuyez sur ENTER. « Please wait... » s’affiche, puis l’écran « SiriusXM Internet Radio » affiche la catégorie que vous pouvez sélectionner.

2 Utilisez ▲/▼ pour sélectionner la catégorie, puis appuyez sur ENTER. L’écran de la liste des canaux de la catégorie sélectionnée s’affiche.

3 Utilisez ▲/▼ pour sélectionner le canal de votre choix, puis appuyez sur ENTER. L’écran de lecture du canal sélectionné s’affiche et vous pouvez écouter SiriusXM Internet Radio. Vous pouvez contrôlez les pistes avec les touches sur la télécommande.

   **Boutons activés : ▲, ▼, ◄, ►, ▼▼**

   ■ **Eléments du menu**

   **Add to My Favorites** : Permet d’ajouter un canal à la liste My Favorites.

Utilisation de la webradio Last.fm

Last.fm un service de musique qui apprend ce que vous aimez…
Votre nouvel ampli-tuner AV Onkyo est très intelligent. Si vous avez un compte Last.fm gratuit, il garde une trace de toutes les chansons que vous avez juste jouées. Quand vous vous rendez sur le site Web de Last.fm, vous pouvez voir les graphiques personnels de la musique que vous avez appréciée, les partagez avec vos amis et également voir ce qu’ils aiment.

Avec des milliers de biographies, de revues et un choix infini de stations de radio personnalisées et sans pub, Last.fm est excellent moyen de découvrir de la musique. Créez aujourd’hui votre compte Last.fm gratuit sur www.last.fm/join

Inscrivez-vous et vous pourrez apprécier le meilleur de la radio sans pub Last.fm sur votre ampli-tuner AV Onkyo sans ordinateur !

Recommended Radio :
Découvrez les recommandations personnalisées futées qui changent en même temps que vos goûts.

Artist Radio :
Sélectionnez n’importe quel artiste et nous vous jouerons une station entière de musique inspirée par votre choix.

My Library :
Reposez-vous de retour et appréciez les sélections à partir de toute la musique que vous avez entendue depuis que vous avez joint Last.fm.

Tag Radio :
Funk polonaise ? Death pop ? Pensez à un style et nous vous divertirons avec pendant des heures.

Comme service pratique de musique, vous pouvez également utiliser plusieurs services de radio sans pub et ceux qui sont propriété de sociétés tierces. À cet égard, nous vous recommandons de consulter les informations supplémentaires disponibles sur www.last.fm.

1 Utilisez ▲▼ pour sélectionner « Sign in to your account », puis appuyez sur ENTER.
Vous possédez déjà un compte Last.fm, vous pouvez vous y connecter pour sélectionner « Sign in to your account ». Saisissez votre nom utilisateur et votre mot de passe dans l’écran clavier suivant.

Utilisation de l’écran clavier
1. Utilisez ▲▼/◄► et le bouton ENTER pour saisir votre nom d’utilisateur et votre mot de passe.
2. Sélectionnez « OK ».
3. Appuyez sur ENTER. L’écran « Confirm your entries » s’affiche.
4. Appuyez sur ENTER.
   « Please wait... » apparaît puis l’écran « Last.fm Internet Radio » apparaît.

Conseil
- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (➔ page 1). L’identification peut être réalisée à partir de l’écran « Users ».

2 Utilisez ▲▼ pour sélectionner un menu puis appuyez sur ENTER.
Search Station :
Vous pouvez rechercher une station par artiste, par tag ou par nom d’utilisateur.
Top Artists Station :
Vous pouvez lire des pistes des artistes les mieux évalués.
Top Tags Station :
Vous pouvez lire des pistes des tags les mieux évalués.
Personal Station :
Vous pouvez lire des pistes de votre station personnalisée (« Your Library », « Your Neighbourhood » et « Your Recommendations »).

Profile :
Vous pouvez lire des pistes de « Recently Listened Tracks », « Library » et « Neighbours ».
Account Info :
Vérifiez les informations de votre compte.
Sign Out :
Pour vous déconnecter de votre compte.

3 Utilisez ▲▼ pour sélectionner une station, puis appuyez sur ENTER ou ► pour démarrer la lecture.
La lecture débute et l’écran de lecture s’affiche.

Eléments du menu
I Love this track :
L’information de la piste est sauvegardée dans le serveur Last.fm, et la fréquence de lecture augmente.
Ban this track :
L’information de la piste est sauvegardée dans le serveur Last.fm, et la fréquence de lecture diminue.
Add to My Favorites :
Permet d’ajouter une station à la liste My Favorites.

Utilisation du contrôle Scrobbling
Utilisez ▲▼ pour sélectionner « Enable », puis appuyez sur ENTER.
* Les services de webradio fournis par un tiers peuvent être résiliés avec ou sans préavis. Les services de webradio peuvent ne pas être accessibles dans certaines zones.
Utilisation de Slacker Personal Radio

1 Si vous ne possédez pas de compte, créez-en un à partir du site Web de Slacker (www.slacker.com) à l’aide de votre ordinateur.
   Si vous possédez déjà un compte Slacker, sélectionnez « Sign in to your account », puis appuyez sur ENTER.
   L’écran clavier s’affiche. Pouvez saisir des informations à partir de la télécommande ou des touches sur l’appareil principal.

2 Si les informations que vous avez saisies ne comportent pas d’erreur, utilisez ▲/▼/◄/► pour sélectionner « OK », puis appuyez sur ENTER.
   L’écran de confirmation des informations du compte s’affiche.

3 Si vous ne possédez pas de compte, sélectionnez « Access without Sign In », puis appuyez sur ENTER pour utiliser une version restreinte du service.
   Veuillez noter que l’utilisation est restreinte.

   Conseil
   • Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (➔ page 1).
   L’identification peut être réalisée à partir de l’écran « Users ».

4 Utilisez ▲/▼ pour sélectionner un élément du menu, puis appuyez sur ENTER.
   Pour vous déconnecter, utilisez ▲/▼ pour sélectionner « Sign out » depuis cet écran, puis appuyez sur ENTER.

5 Utilisez ▲/▼ pour sélectionner une station, puis appuyez sur ENTER ou ► pour démarrer la lecture depuis cette station.
   L’écran de lecture apparaît.

6 Vous pouvez contrôlez les pistes avec les touches sur la télécommande.
   Boutons activés : ►, ◀, ■, ▶

   ▲ Éléments du menu
   Rate Song as Favorite :
   Permet de stocker des informations sur le serveur, et d’augmenter la probabilité que le morceau soit lu de nouveau.
   Ban Song :
   Permet de stocker des informations sur le serveur, et de diminuer la probabilité que le morceau soit lu de nouveau.
   Ban Artist :
   Permet de stocker des informations sur le serveur, et de diminuer la probabilité que les morceaux de cet artiste soient lus de nouveau.
   Mark Favorite :
   Permet d’ajouter la station en cours de lecture à vos favoris.
   Unmark Favorite :
   Permet de supprimer la station en cours de lecture de vos favoris.
   Add song to Library :
   Permet d’ajouter la piste en cours de lecture à votre bibliothèque.
   Delete song from Library :
   Permet de supprimer la piste en cours de lecture de votre bibliothèque.
   Add to My Favorites :
   Permet d’ajouter une station ou un morceau à la liste My Favorites.
Uso de Internet Radio

Procedimientos comunes en el menú Internet Radio

**Nota**
- Los servicios disponibles pueden variar de una región a otra.

1 Pulse NET. Aparecerá una lista de los servicios de red y se iluminará el indicador NET. Si parpadea, verifique que el cable Ethernet esté firmemente conectado al receptor de AV.

2 Seleccione el servicio deseado y pulse ENTER. Aparecerá la página principal del servicio seleccionado.

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**Uso de múltiples cuentas**

El receptor de AV permite múltiples cuentas de usuario, lo que quiere decir que se puede cambiar libremente entre varios usuarios. Después de registrar las cuentas de usuario, el acceso se realiza desde la pantalla “Users”.

1 Pulse MENU cuando aparezca la pantalla de usuarios. Aparecerán los siguientes elementos del menú:
- **Add new user:** Puede guardar una nueva cuenta de usuario.
- **Remove this user:** Puede borrar una existente.

**Consejo**
- Algunos de los servicios no permiten el uso de múltiples cuentas de usuario.
- Puede guardar hasta 10 cuentas de usuario.
- Para cambiar entre cuentas debe antes cerrar sesión en la cuenta actual y acceder de nuevo en la pantalla “Users”.

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Pandora® Internet Radio –Primeros pasos (solo EE.UU.) ............................................ 2

Uso de Rhapsody (sólo EE.UU.).................... 3

Uso de SiriusXM Internet Radio (solo Norteamérica) ........................................... 4

Uso de Last.fm Internet Radio ...................... 5

Uso de Slacker Personal Radio .................... 6
Pandora es un servicio de radio por Internet gratuito y personalizado que reproduce la música que usted conoce y le ayudará a descubrir música que le encantará.

1 Utilice ▲/▼ para seleccionar “I have a Pandora Account” o “I’m new to Pandora” y luego pulse ENTER.

Si no conoce Pandora seleccione “I’m new to Pandora”. Verá un código de activación en la pantalla del televisor. Tome nota de este código. Vaya a un ordenador conectado a Internet y dirija el navegador a www.pandora.com/onkyo

Introduzca su código de activación y siga las instrucciones para crear su cuenta de Pandora y sus emisoras de radio por Internet personalizadas de Pandora. Puede crear sus propias emisoras introduciendo sus canciones y artistas favoritos cuando aparezca la solicitud correspondiente. Una vez creada su cuenta y sus emisoras, puede regresar al receptor Onkyo y pulsar Enter para empezar a escuchar su radio por Internet personalizada de Pandora.

Si ya dispone de una cuenta de Pandora, puede añadirla al receptor Onkyo seleccionando “I have a Pandora Account” e iniciando la sesión con su dirección de correo electrónico y contraseña.

Consejo
- Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (página 1). Se puede iniciar sesión desde la pantalla “Users”.

2 Utilice ▲/▼ para seleccionar la emisora en la lista de emisoras y luego pulse ENTER.

Se inicia la reproducción y aparece la pantalla de reproducción.

Create a New Station:
Introduzca el nombre de una canción, artista o género; Pandora creará una emisora de radio exclusiva para usted basada en las cualidades musicales de esa canción, de ese artista o de ese género.

■ Elementos del menú
I like this song:
Si aprueba (pulgar arriba) una canción, Pandora reproducirá más música parecida.
I don’t like this song:
Si no aprueba (pulgar abajo) la canción, Pandora eliminará dicha canción de la emisora actual.
Why is this song playing?:
Descubra algunos de los atributos musicales que Pandora utiliza para crear sus emisoras de radio personalizadas.
Don’t play the song for a month:
Si se cansa de una canción, puede “silenciarla” de modo que Pandora no la reproduzca durante un mes.
Create station from this artist:
Crea una emisora de radio a partir de este artista.

Delete this station:
Esto eliminará de forma permanente una emisora de su cuenta de Pandora. Toda la información sobre sus aprobaciones / desaprobaciones se perderá si quiere volver a crear la emisora con la misma canción o artista.

Create station from this song:
Crea una emisora de radio a partir de esta canción.

Rename this station:
Le permite renombrar la emisora de radio actual.

Bookmark this artist:

Bookmark this song:
Pandora marcará la canción actual y le permitirá comprarlas todas en Amazon o iTunes con un solo paso.

Add to My Favorites:
Añade una emisora a la lista Mis favoritos.

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Uso de Internet Radio

Uso de Rhapsody (sólo EE.UU.)

1. Utilice ▲▼ para seleccionar “Sign in to your account” y luego pulse ENTER.
   Para utilizar Rhapsody, necesitará una cuenta. Si todavía no tiene una, puede crear una nueva en www.rhapsody.com/onkyo
   Si ya tiene una cuenta Rhapsody, seleccione “Sign in to your account” y pulse ENTER.
   Escriba su nombre de usuario (normalmente el correo electrónico) y contraseña en la pantalla de teclado que aparece a continuación o en la configuración web.

   ■ Utilización de la pantalla de teclado
   1. Utilice ▲▼/◄► y ENTER para introducir su nombre de usuario y su contraseña.
   2. Seleccione “OK”.
   3. Pulse ENTER. Aparecerá la pantalla “Confirm your entries”.
   4. Pulse ENTER.

   Consejo
   • Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (página 1). Se puede iniciar sesión desde la pantalla “Users”.

2. Utilice ▲▼ para seleccionar el menú y luego pulse ENTER.
   Search:
   Puede buscar música por artista, álbum o canción.
   Music Guide:
   Puede reproducir canciones por géneros, artistas principales, álbumes principales o canciones principales, novedades, selección del sitio.
   Rhapsody Channels:
   Escuche las emisoras de radio programadas por los principales redactores de Rhapsody.
   Playlists:
   Reproduzca sus listas personales.
   My Library:
   Marque sus álbumes y canciones preferidas en el catálogo de Rhapsody, usando Mi biblioteca.
   Account Info:
   Confirme los datos de su cuenta.
   Sign Out:
   Salga de su cuenta Rhapsody.

3. Utilice ▲▼ para seleccionar una emisora y luego pulse ENTER o ► para iniciar la reproducción.
   Se inicia la reproducción y aparece la pantalla de reproducción.
   Puede controlar las pistas con los botones del mando a distancia.
   Botones activados: ►, ◄, ◄◄, ◄►, ◄◄◄, ◄►►, RANDOM, REPEAT

   Nota
   • En Rhapsody Channels, algunos de los botones no funcionan.

   ■ Elementos del menú
   Add track to My Library:
   Marca las canciones que se están reproduciendo actualmente.
   Add album to My Library:
   Marca los álbumes que se están reproduciendo actualmente.
   Add playlist to My Library:
   Marca las listas de reproducción que se están reproduciendo actualmente.
   Add channel to My Channels:
   Marca las emisoras de Rhapsody que se están reproduciendo actualmente.
   Add to My Favorites:
   Añade una canción, emisora o lista de reproducción a la lista Mis favoritos.

   Consejo
   • Puede eliminar las canciones, los álbumes y las emisoras de Rhapsody marcados de Mi biblioteca.
Uso de Internet Radio

Su receptor de AV Onkyo incluye una prueba gratuita de SiriusXM Internet Radio. La pantalla “Account Info” muestra los días que quedan de la prueba. Una vez que termine el periodo de prueba, si desea seguir escuchando este servicio, deberá contratarlo. para suscribirse vaya a www.siriusxm.com/internetradio con su ordenador.

Cuando se suscriba, recibirá un nombre de usuario y una contraseña que deberá introducir en el receptor de AV.

Para poder utilizar SiriusXM Internet Radio, el receptor de AV debe estar conectado a internet. Para usar el mando a distancia, siga este procedimiento:

1. Utilice A/V para seleccionar “Sign In”, y luego pulse ENTER.
   Si ya tiene una cuenta SIRIUS, puede acceder seleccionando “Sign In”. Escriba su nombre de usuario y contraseña en la pantalla de teclado que aparece a continuación o en la configuración web. Si no sabe su nombre de usuario o la contraseña, llame a Sirius XM al número (888) 539-7474 para solicitar asistencia.

   **Consejo**
   - Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (página 1). Se puede iniciar sesión desde la pantalla “Users”.

   **Utilización de la pantalla de teclado**
   1. Utilice A/V y ENTER para introducir su nombre de usuario y su contraseña.
   2. Seleccione “OK”.
   3. Pulse ENTER. Aparecerá la pantalla “Confirm your entries”.
   4. Pulse ENTER. Aparecerá “Please wait...” y después la pantalla “SiriusXM Internet Radio”, que muestra la categoría disponible para la selección.

2. Utilice A/V para seleccionar la categoría y luego pulse ENTER.
   Aparece una pantalla con una lista de emisoras de la categoría seleccionada.

3. Utilice A/V para seleccionar la emisora deseada y luego pulse ENTER.
   Aparecerá la pantalla de reproducción de la emisora seleccionada y ahora usted podrá escuchar SiriusXM Internet Radio.
   Puede controlar las pistas con los botones del mando a distancia.
   Botones activados: ■, ,  ,  ,  

   **Elementos del menú**
   **Add to My Favorites:**
   Añade una emisora a la lista Mis favoritos.

Las suscripciones a SiriusXM Internet Radio se venden por separado y se rigen por las condiciones de Sirius (consulte www.sirius.com). Lea atentamente este acuerdo antes de comprar la suscripción. Sirius, XM y todas las marcas y logotipos relacionados son marcas comerciales de Sirius XM Radio Inc. y sus filiales. Todos los derechos reservados.
Uso de Internet Radio

Last.fm es un servicio musical que sabe lo que le gusta...

Su nuevo receptor de AV Onkyo es muy inteligente. Si tiene una cuenta gratuita de Last.fm, hará un seguimiento de todas las canciones que acaba de escuchar. Cuando visite el sitio web de Last.fm, podrá ver listas personales de la música que ha disfrutado, compartirlas con sus amigos y también ver lo que les gusta a ellos.

Con sus miles de biografías, críticas y una infinita variedad de emisoras de radio personalizadas y sin publicidad, Last.fm es una forma excelente de descubrir música. Cree hoy mismo una cuenta gratuita de Last.fm en www.last.fm/join

Si se suscribe podrá disfrutar de lo mejor de Last.fm Radio sin anuncios en su receptor de AV Onkyo sin necesidad de un ordenador.

**Recommended Radio:**
Descubra nuestras interesantes recomendaciones personalizadas que se adaptan a sus gustos en cada momento.

**Artist Radio:**
Escoja cualquier artista y podrá escuchar una emisora de radio inspirada exclusivamente en su elección.

**My Library:**
Relájese y disfrute de selecciones de toda la música que ha escuchado desde que se registró en Last.fm.

**Tag Radio:**
¿Polish funk? ¿Death pop? Piense en un estilo y podrá escucharlo durante horas.

Puébelo gratis ahora mismo. Cree una cuenta y verá por sí mismo lo que significa tener toda la música del mundo al alcance de sus oídos. Puede consultar los precios actualizados y toda la información que desee en www.last.fm/subscribe

1 **Utilice ▲▼ para seleccionar “Sign in to your account”, y luego pulse ENTER.**
   Si ya tiene una cuenta de Last.fm, puede acceder a ella para seleccionar “Sign in to your account”.
   Introduzca su nombre de usuario y contraseña en la siguiente pantalla de teclado.

   **Utilización de la pantalla de teclado**
   1. Utilice ▲▼/◄/► y ENTER para introducir su nombre de usuario y su contraseña.
   2. Pulse ENTER. Aparecerá la pantalla “Confirm your entries”.
   3. Pulse ENTER. Aparecerá “Please wait...” y después la pantalla “Last.fm Internet Radio”.

   **Consejo**
   • Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (⇒ página 1). Se puede iniciar sesión desde la pantalla “Users”.

2 **Utilice ▲▼ para seleccionar un menú y luego pulse ENTER.**

   **Search Station:**
   Puede buscar emisoras por artista, etiquetas o nombre de usuario.

   **Top Artists Station:**
   Puede reproducir canciones de los artistas mejor clasificados.

   **Top Tags Station:**
   Puede reproducir canciones con las etiquetas mejor clasificadas.

   **Personal Station:**
   Puede reproducir pistas de una emisora personalizada (“Your Library”, “Your Neighbourhood” y “Your Recommendations”).

3 **Utilice ▲▼ para seleccionar una emisora y luego pulse ENTER o ► para iniciar la reproducción.**
   Se inicia la reproducción y aparece la pantalla de reproducción.

   **Elementos del menú**
   **I Love this track:**
   Se guarda la información sobre la canción en el servidor de Last.fm y aumenta la frecuencia con la que se reproduce.

   **Ban this track:**
   Se guarda la información sobre la canción en el servidor de Last.fm y se reduce la frecuencia con la que se reproduce.

   **Add to My Favorites:**
   Añade una emisora a la lista Mis favoritos.

   **Profile:**
   Puede reproducir pistas de “Recently Listened Tracks”, “Library” y “Neighbours”.

   **Account Info:**
   Confirme los datos de su cuenta.

   **Sign Out:**
   Se desconecta de su cuenta.

   **Uso del control de scrobbling**
   Utilice ▲▼ para seleccionar “Enable”, y luego pulse ENTER.

   • Los servicios de radio por Internet suministrados por terceros pueden cancelarse con o sin aviso previo. Es posible que los servicios de radio por Internet no estén disponibles en algunas zonas.
Uso de Internet Radio

1 Si no tiene una cuenta, cree una en el sitio web de Slacker (www.slacker.com) con su ordenador. Si ya tiene una cuenta de Slacker, seleccione “Sign in to your account” y pulse ENTER. Aparecerá la pantalla de teclado. Puede introducir información desde el mando a distancia o desde el teclado de la unidad principal.

2 Si no hay errores en la información que ha introducido, utilice ▲/▼/◄/► para seleccionar “OK” y luego pulse ENTER. Aparecerá una pantalla de confirmación de la información de la cuenta.

3 Si no tiene una cuenta, seleccione “Access without Sign In” y pulse ENTER para utilizar una versión restringida del servicio. Tenga en cuenta que el uso estará restringido.

Consejo
• Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (página 1). Se puede iniciar sesión desde la pantalla “Users”.

4 Utilice ▲/▼ para seleccionar un menú y luego pulse ENTER. Para salir, utilice ▲/▼ para seleccionar “Sign out” en esta pantalla y luego pulse ENTER.

5 Utilice ▲/▼ para seleccionar una emisora y luego pulse ENTER o ► para iniciar la reproducción de la emisora. Aparecerá la pantalla de reproducción.

6 Puede controlar las pistas con los botones del mando a distancia. Botones activados: ►, ■, ◄, ►►

■ Elementos del menú
Rate Song as Favorite:
Guarda información en el servidor, haciendo que sea más probable que la canción se vuelva a reproducir.
Ban Song:
Guarda información en el servidor, haciendo que sea menos probable que la canción se vuelva a reproducir.
Ban Artist:
Guarda información en el servidor, haciendo que sea menos probable que las canciones de este artista se vuelvan a reproducir.
Mark Favorite:
Añade la emisora que se está reproduciendo actualmente a los favoritos.
Unmark Favorite:
Elimina la emisora que se está reproduciendo actualmente de los favoritos.
Add song to Library:
Añade la canción que se está reproduciendo actualmente a su biblioteca.
Delete song from Library:
Elimina la canción que se está reproduciendo actualmente de la biblioteca.
Add to My Favorites:
Añade una emisora o canción a la lista Mis favoritos.
Using Internet Radio

Common Procedures in Internet Radio Menu

Note
- Available services may vary depending on the region.

1 Press NET.
A list of the network services appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.

2 Select the desired service and press ENTER.
The top page of the selected service appears.

Using Multiple Accounts
The AV receiver supports multiple user accounts, which means you can freely switch between several logins. After registering user accounts, login is performed from the “Users” screen.

1 Press MENU while the Users screen is displayed.
The following menu items appear:

   Add new user:
   Remove this user:
You can either store a new user account, or delete an existing one.

Tip
- Some of the services don’t allow the use of multiple user accounts.
- You can store up to 10 user accounts.
- To switch between accounts you must first log out from the current account, and log in again on the “Users” screen.
Using Last.fm Internet Radio

Last.fm is a music service that learns what you love...
Your new Onkyo AV receiver is very clever. If you have a free Last.fm account, it will keep track of all the songs you’ve just played. When you visit the Last.fm website, you can see personal charts of the music you’ve enjoyed, share them with friends and see what they like, too.

With thousands of biographies, reviews and an endless choice of personalised, ad-free radio stations, Last.fm is a great way to discover music. Pick up your free Last.fm account today at www.last.fm/join

UK and Germany only:
Get a subscription and you can enjoy the best of ad-free Last.fm Radio on your Onkyo AV receiver without a computer!

Recommended Radio:
Discover smart personalised recommendations that adapt as your tastes change.

Artist Radio:
Pick any artist and we’ll play you a whole station of music inspired by your choice.

My Library:
Sit back and enjoy selections from all the music you’ve heard since you joined Last.fm.

Tag Radio:
Polish funk? Death pop? Think of a style and we’ll entertain you with it for hours.

Start your free trial straight away when you create your account and see for yourself what it’s like to have the world’s music at your fingertips. Latest prices and full information are available at www.last.fm/subscribe

1 Use ▲/▼ to select “Sign in to your account”, and then press ENTER.
If you have the existing Last.fm account, you can sign in to your account to select “Sign in to your account”. Enter your user name and password in the next keyboard screen.

Using the keyboard screen
1. Use ▲/▼ or ENTER and the ENTER to enter your user name and password.
2. Select “OK”.
3. Press ENTER. The “Confirm your entries” screen appears.
4. Press ENTER. “Please wait...” appears and then “Last.fm Internet Radio” screen appears.

Tip
* If you want to use multiple user accounts, see “Using Multiple Accounts” (page 1). Login can be made from the “Users” screen.

2 Use ▲/▼ to select menu and then press ENTER.
Search Station:
You can search station by Artist, Tag, or User Name.

Top Artists Station:
You can play tracks of top-rated artists.

Top Tags Station:
You can play tracks of top-rated tags.

Personal Station:
You can play tracks from personalized station (“Your Library”, “Your Neighbourhood” and “Your Recommendations”).

Profile:
You can play tracks from “Recently Listened Tracks”, “Library” and “Neighbours”.

Account Info:
Confirm your account information.

Sign Out:
It signs out from your account.

3 Use ▲/▼ to select a station, and press ENTER or ◀ to start playback.
Playback starts and the playback screen appears.

Enabled buttons: ◀, ▲, ▶

Menu Items
I Love this track:
Track information is saved in Last.fm server, and playback frequency increases.

Ban this track:
Track information is saved in Last.fm server, and playback frequency reduces.

Add to My Favorites:
Adds a station to My Favorites list.

Using scrobbling control
Use ▲/▼ to select “Enable”, and then press ENTER.

* Internet radio services provided by a third party may be terminated with or without notice.

Internet radio services may not be available in some areas.
Internetradio verwenden

Allgemeine Verfahren bei den Internetradio-Menüs

Anmerkung

• Die verfügbaren Dienste sind länderabhängig verschieden.

1 Drücken Sie NET.
Es erscheint eine Liste der Netzwerkdienste und die NET-Anzeige leuchtet. Wenn sie blinkt, überprüfen Sie ob das Ethernet-Kabel fest im AV-Receiver eingesteckt ist.

2 Wählen Sie den gewünschten Service aus und drücken Sie ENTER.
Die oberste Seite des ausgewählten Services erscheint.

Verwendung mehrerer Konten
Der AV-Receiver unterstützt mehrere Nutzerkonten, was bedeutet, dass Sie frei zwischen mehreren Logins umschalten können. Nach der Anmeldung der Nutzerkonten wird das Login vom „Users“ Bildschirm aus vorgenommen.

1 Drücken Sie MENU während der Bildschirm des Nutzers angezeigt wird.
Das folgende Menü erscheint:
Add new user:
Remove this user:
Sie können entweder ein neues Nutzerkonto abspeichern oder ein bestehendes löschen.

Tipp

• Einige dieser Dienstleistungen lassen keine mehrfachen Nutzerkonten zu.
• Sie können bis zu 10 Nutzerkonten speichern.
• Um zwischen den Konten umzuschalten, müssen Sie sich zuerst aus Ihrem aktuellen Konto ausloggen und sich dann wieder auf dem „Users“ Bildschirm einloggen.
Verwendung von Last.fm Internet Radio

Last.fm ist ein Musikdienst, der sich Ihre Lieblingsmusik merkt...

Ihr neuer Onkyo AV-Receiver ist äußerst clever. Wenn Sie ein kostenloses Last.fm-Konto eingerichtet haben, werden darin alle kürzlich abgespielten Titel gespeichert. Wenn Sie die Last.fm-Website besuchen, können Sie Ihre persönlichen Charts der von Ihnen abgespielten Musik anzeigen; teilen Sie diese mit Freunden und sehen Sie auch, welche Musik Ihre Freunde mögen.

Mit tausenden von Biografien, Rezensionen und einer schier endlosen Auswahl an persönlich angepassten, werbefreien Radiosendern ist Last.fm eine großartige Gelegenheit, um Musik zu entdecken. Holen Sie sich Ihr kostenloses Last.fm-Konto noch heute unter www.last.fm/join

Nur für Großbritannien und Deutschland:
Holen Sie sich ein Abonnement und Sie können auch ohne Computer die besten werbefreien Last.fm-Radiosender auf Ihrem Onkyo AV-Receiver hören!

Verwendung von Last.fm Internet Radio

1. Verwenden Sie ▲/▼, um „Sign in to your account“ auszuwählen und dann drücken Sie ENTER. Wenn Sie über einen bestehenden Last.fm Konto verfügen, können Sie sich anmelden und „Sign in to your account“ wählen. Geben Sie Ihre Ihre Benutzernamen und das Kennwort in der folgenden Tastaturanzeige ein.

Verwendung der Tastaturanzeige
1. Verwenden Sie ▲/▼/◄► und den ENTER, um Ihren Nutzernamen und Passwort einzugeben.
2. Wählen Sie „OK“.
3. Drücken Sie ENTER. Die Anzeige „Confirm your entries“ erscheint.
4. Drücken Sie ENTER.
„Please wait...“ wird angezeigt und danach erscheint die „Last.fm Internet Radio“-Anzeige.

Tipp
- Falls Sie mehrere Nutzerkonten verwenden möchten, schlagen Sie bitte unter „Verwendung mehrerer Konten“ nach (➔ Seite 1). Das Login kann vom „Users“-Bildschirm aus erfolgen.

2. Verwenden Sie ▲/▼, um das Menü auszuwählen und dann drücken Sie ENTER.

Search Station:
Sie können einen Sender anhand Interpreten, Tags oder Benutzernamen suchen.

Top Artists Station:
Sie können Titel der am besten bewerteten Interpreten wiedergeben.

Top Tags Station:
Sie können Titel der am besten bewerteten Tags wiedergeben.

Personal Station:
Sie können Titel aus einem persönlich angepassten Sender wiedergeben („Your Library“, „Your Neighbourhood“ und „Your Recommendations“).

Menüsymbôle
I Love this track:
Titel-Informationen werden auf dem Last.fm-Server gespeichert und die Häufigkeit der Wiedergabe wird erhöht.

Ban this track:
Titel-Informationen werden auf dem Last.fm-Server gespeichert und die Häufigkeit der Wiedergabe wird verringert.

Add to My Favorites:
Fügt einen Sender zu meiner My Favorites Liste hinzu.

Scrobbling-Steuerung verwenden
Verwenden Sie ▲/▼, um „Enable“ auszuwählen und dann drücken Sie ENTER.

* Von Drittparteien zur Verfügung gestellte Internetradio-Dienste können unter Umständen ohne Vorankündigung eingestellt werden. In bestimmten Gebieten sind Internetradio-Dienste eventuell nicht verfügbar.

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Remote Control Codes

1 While holding down the REMOTE MODE button to which you want to assign a code, press and hold down [DISPLAY] (about 3 seconds).
   The REMOTE MODE button/Remote indicator lights.
   On Integra products, button names are capitalized. For example, “Remote Mode” button and “Display” button.

   Notes:
   • Remote control codes cannot be entered for [RECEIVER] and the multi zone button.
   • Only TV remote control codes can be entered for [TV].
   • Except for [RECEIVER], [TV], and the multi zone button, remote control codes from any category can be assigned for the REMOTE MODE buttons. However, these buttons also work as input selector buttons, so choose a REMOTE MODE button that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose [TV/CD] when entering its remote control code.

2 Within 30 seconds, use the number buttons to enter the 5-digit remote control code.
   The REMOTE MODE button/Remote indicator flashes twice.
   If the remote control code is not entered successfully, the REMOTE MODE button/Remote indicator will flash once slowly.

   Notes:
   • The flashing element of the remote controller will differ according to your AV receiver’s model.
   • The remote controller is preconfigured with remote controller presets of different components. By entering a code from the Remote Control Code list, you can activate the relevant preset for that component.
   • When there are multiple codes related to one manufacturer, try and enter them one-by-one until it matches your component.
   • Depending on the model and year of your component, compatibility is not guaranteed.
   • With some models, the remote controller may not work or its compatibility may be limited to part of the component’s functionality.
   • Besides, it is not possible to add new codes to the existing remote controller presets.
   • Though the provided remote control codes are correct at the time of printing, they are subject to change by the manufacturer.
Codes de télécommande

1 Tout en maintenant enfoncé le bouton REMOTE MODE auquel vous souhaitez associer un code, pressez et maintenez enfoncé le bouton [DISPLAY] (pendant environ 3 secondes).

Le bouton REMOTE MODE/le témoin Remote s’allume.
Les noms de boutons sont en majuscules sur les produits Integra. Par exemple, le bouton « Remote Mode » et le bouton « Display ».

Remarques :
• Les codes de télécommande ne peuvent pas être entrés pour [RECEIVER] et le bouton multi zone.
• Seul les code de télécommande de téléviseurs peuvent être entrés pour [TV].
• À l’exception de [RECEIVER], [TV] et du bouton multi zone, vous pouvez affecter des codes de télécommande de n’importe quelle catégorie pour les boutons REMOTE MODE. Cependant, ces boutons font également office de bouton de sélecteur d’entrée : par conséquent, choisissez un bouton REMOTE MODE correspondant à l’entrée à laquelle vous souhaitez raccorder votre appareil. Par exemple, si vous raccordez votre lecteur CD à l’entrée CD, choisissez [TV/CD] lorsque vous saisissez le code de télécommande.

2 Vous disposez de 30 secondes pour saisir le code de télécommande à cinq chiffres à l’aide des boutons numérotés.
Le bouton REMOTE MODE/le témoin Remote clignote deux fois.
Si le code de télécommande n’a pas été saisi correctement le bouton REMOTE MODE/l’indicateur Remote ne clignote qu’une seule fois.

Remarques :
• L’élément clignotant de la télécommande différera selon le modèle de votre ampli-tuner AV.
• La télécommande est préconfigurée avec des préréglages de télécommande de différents appareils. En entrant un code de la liste des codes de télécommandes, vous pouvez activer le préréglage approprié pour cet appareil.
• Quand il y a de multiples codes liés à un fabricant, essayez-les et entrez-les un par un jusqu’à ce que cela corresponde à votre appareil.
• Selon le modèle et l’année de votre appareil, la compatibilité n’est pas garantie.
• Avec certains modèles, la télécommande peut ne pas fonctionner ou sa compatibilité peut être limitée à une partie de la fonctionnalité de l’appareil.
• En outre, il n’est pas possible d’ajouter de nouveaux codes aux préréglages de télécommande existants.
• Bien que les codes de télécommande fournis soient corrects au moment de l’impression de la liste, ils sont susceptibles d’être modifiés par le fabricant.

Códigos de control remoto

1 Manteniendo pulsado el botón REMOTE MODE para el cual desea introducir un código, pulse y mantenga presionado el botón [DISPLAY] (aproximadamente 3 segundos).

Se iluminará el botón REMOTE MODE/indicador Remote.
En los productos Integra, los nombres de los botones aparecen con mayúsculas. Por ejemplo, el botón “Remote Mode” y el botón “Display”.

Notas:
• No podrán introducirse códigos de mando a distancia para [RECEIVER] y el botón multizona.
• Únicamente podrán introducirse códigos de mando a distancia de televisor para el botón [TV].
• Con la excepción de [RECEIVER], [TV] y el botón multizona, se pueden asignar códigos de mando a distancia a cualquier categoría de los botones de REMOTE MODE. No obstante, estos botones también pueden funcionar como botones de selector de entrada; por tanto, seleccione un botón REMOTE MODE que se corresponda con la entrada a la cual está conectado el componente. Por ejemplo, si conecta un reproductor de CD a la entrada de CD, seleccione [TV/CD] cuando introduzca su código de mando a distancia.

2 Antes de que transcurran 30 segundos, utilice los botones numéricos para introducir el código de mando a distancia de 5 dígitos.
El botón REMOTE MODE/indicador Remote parpadeará dos veces.
Si el código de mando a distancia no se introduce correctamente, el botón REMOTE MODE/indicador Remote parpadeará una vez despacio.

Notas:
• El parpadeo del mando distancia será distinto según el modelo de receptor de AV.
• El mando a distancia está preconfigurado con los ajustes predeterminados de los distintos componentes. Al introducir un código de la lista de códigos del mando a distancia se puede activar el ajuste predeterminado de ese componente.
• Cuando hay múltiples códigos relacionados con un fabricante, pruebe a introducirlos uno a uno hasta que coincida con su componente.
• Dependiendo del modelo y el año de su componente, la compatibilidad no está garantizada.
• Con algunos modelos, es posible que el mando a distancia no funcione o que su compatibilidad esté limitada a una parte de las funciones del componente.
• Además, no es posible añadir nuevos códigos a los ajustes predeterminados existentes del mando a distancia.
• Los códigos de mando a distancia suministrados son correctos en el momento de la impresión, pero el fabricante puede realizar cambios.
**Codici del telecomando**

1 Tenendo premuto il tasto REMOTE MODE al quale si desidera assegnare il codice, premere e tenere premuto [DISPLAY] (per circa 3 secondi).
   Il tasto REMOTE MODE/indicatore Remote si accende.
   Sui prodotti Integra, i nomi dei tasti sono scritti con l'iniziale maiuscola. Ad esempio, tasto “Remote Mode” e tasto “Display”.

**Note:**
- I codici di controllo del telecomando non possono essere inseriti per [RECEIVER] e i tasti multi zona.
- Per [TV] è possibile immettere solo codici telecomando del televisore.
- Tranne che per [RECEIVER], [TV], e per il tasto multi zona, è possibile assegnare codici di controllo di ogni categoria per i tasti REMOTE MODE. Tuttavia, tali tasti fungono anche da tasti del selettore d'ingresso, quindi scegliere un tasto REMOTE MODE che corrisponda all'ingresso al quale viene collegato il dispositivo. Per esempio, se si collega il lettore CD all'ingresso CD, scegliere il [TV/CD] quando si immette il relativo codice telecomando.

2 Entro 30 secondi utilizzare i tasti numerici per inserire il codice telecomando a 5 cifre.
   Il tasto REMOTE MODE/indicatore Remote lampeggia due volte.
   Se il codice telecomando non viene inserito correttamente, il tasto REMOTE MODE/indicatore Remote lampeggia lentamente una volta.

**Note:**
- L'elemento lampeggiante del telecomando varia a seconda del modello del ricevitore AV.
- Il telecomando è preconfigurato con preselezioni per diversi apparecchi. Inserendo un codice dall'elenco dei codici telecomando, è possibile attivare la relativa preselezione per tale apparecchio.
- Se sono presenti più codici relativi allo stesso produttore, provare a inserirli uno a uno finché non si arrivi al codice corrispondente dell'apparecchio.
- A seconda del modello e dell'anno dell'apparecchio, la compatibilità non è garantita.
- Con alcuni modelli, il telecomando può non funzionare e la sua compatibilità può essere limitata a una parte della funzionalità dell'apparecchio.
- Inoltre, non è possibile aggiungere nuovi codici alle preselezioni esistenti del telecomando.
- I codici telecomando specificati sono validi alla data della stampa del presente documento, ma sono soggetti a variazioni da parte del produttore.

**Fernbedienungscodes**

1 Halten Sie die REMOTE MODE-Taste gedrückt, für die Sie den Code eingeben mochten, und drücken Sie (ca. 3 Sekunden lang) die [DISPLAY]-Taste.
   Die REMOTE MODE-Taste/Remote-Anzeige leuchtet.

**Hinweise:**
- Der Taste [TV] können nur Fernbedienungscodes für einen Fernseher zugeordnet werden.

2 Geben Sie mit den Zifferntasten innerhalb von 30 Sekunden den 5-stelligen Herstellercode ein.
   Die REMOTE MODE-Taste/Remote-Anzeige blinkt zwei Mal.
   Wenn der Fernbedienungscode nicht ordnungsgemäß eingegeben wurde, blinkt die REMOTE MODE-Taste/Remote-Anzeige einmal langsam.

**Hinweise:**
- Das blinkende Element auf der Fernbedienung unterscheidet sich je nach AV-Receiver-Modell.
- Die Fernbedienung ist mit den Voreinstellungen der Fernbedienung der verschiedenen Komponenten vorkonfiguriert. Indem ein Code aus der Liste der Fernbedienungscodes eingegeben wird, können Sie die entsprechende Voreinstellung für die Komponente aktivieren.
- Wenn es mehrere Codes gibt, die sich auf einen Hersteller beziehen, versuchen Sie sie einzeln einzugeben, bis einer mit Ihrer Komponente übereinstimmt.
- Dies hängt vom Modell und Herstellungsjahr Ihrer Komponente ab und die Kompatibilität ist nicht garantiert.
- Es kann sein, dass bei einigen Modellen die Fernbedienung nicht funktioniert oder ihre Kompatibilität sich auf nur auf Teile der Funktionalität der Komponente beschränkt.
- Abgesehen davon ist es nicht möglich, den bestehenden Voreinstellungen der Fernbedienung neue Codes hinzuzufügen.
- Obwohl die angegebenen Fernbedienungscodes dem Stand bei Drucklegung entsprechen, sind Änderungen durch den Hersteller vorbehalten.
Afstandsbedieningscodes

1 Houd terwijl u de REMOTE MODE toets ingedrukt houdt waarvoor u een code wilt toewijzen de [DISPLAY] toets ingedrukt (ongeveer 3 seconden). De toets REMOTE MODE (afstandsbedieningsmodus) / Het indicatielampje afstandsbediening gaat branden. Op producten van Integra staan de namen van de toetsen in hoofdletters. Bijvoorbeeld, de toetsen “Remote Mode” en “Display”.

Opmerkingen:
- Er kunnen geen afstandsbedieningscodes worden ingevoerd voor [RECEIVER] en de multi zone-toets.
- Alleen TV afstandsbedieningscodes kunnen worden ingevoerd voor [TV].

2 Gebruik binnen 30 seconden de cijfertoetsen om de 5-cijferige afstandsbedieningscode in te voeren. De toets REMOTE MODE (afstandsbedieningsmodus) / Het indicatielampje afstandsbediening knippert tweemaal. Indien de afstandsbedieningscode niet met succes wordt ingevoerd, zal de toets REMOTE MODE/Remote-indicator eenmaal traag knipperen.

Opmerkingen:
- Het knippergedeelte van de afstandsbediening zal verschillen ten opzichte van het model van uw AV-receiver.
- De afstandsbediening is vooropgeprogrammeerd met voorkeuzetoetsen van verschillende componenten. Door het invullen van een code uit de afstandsbediening codelijst kunt u de voorkeuzetoets voor die component activeren.
- Wanneer er meerdere codes gerelateerd zijn aan één fabrikant, probeer deze dan een voor een totdat de juiste code overeenkomt met uw component.
- Afhankelijk van het model en het bouwjaar van uw component is de compatibiliteit niet gegarandeerd.
- Bij sommige modellen werkt de afstandsbediening mogelijk niet of is de compatibiliteit ervan beperkt tot een deel van de functionaliteit van de component.
- Daarnaast is het niet mogelijk om nieuwe codes aan de bestaande voorkeuzetoetsen van de afstandsbediening toe te voegen.
- Hoewel de gegeven afstandsbedieningscodes correct zijn op het moment van afdrukken, kunnen deze door de fabrikant gewijzigd worden.

Fjärrstyrningskoder


Anmärkningar:
- Fjärrkontrollkoder kan inte anges för knapparna [RECEIVER] och flerzonsknappen.
- Endast fjärrkontrollkoder för tv kan anges för [TV].

2 Använd sifferknapparna för att ange den femsiffriga koden inom 30 sekunder. REMOTE MODE-knapp/Fjärrindikatorlampa blinkar två gånger. Om fjärrkontrollkoden inte ställdes in, blinkar REMOTE MODE-knappen/fjärrindikatorn långsamt en gång.

Anmärkningar:
- Det blinkande elementet på fjärrkontrollen skiljer sig åt beroende på din modell och av AV-receiver.
- Fjärrkontrollen har förkonfigurerats med förvalda kanaler på fjärrkontrollen för olika komponenter. Genom att ange en kod från fjärrkontrollkodlistan, kan du aktivera relevanta förvalda kanaler för den utrustningen.
- När det finns flera olika koder för en tillverkare ska du försöka att ange dem en och en tills de stämmer överens med din utrustning.
- Beroende på utrustningens modell och årgång, går det inte att garantera kompatibilitet.
- På vissa modeller kan det hända att fjärrkontrollen inte fungerar eller så kan denna kompatibilitet vara begränsad till en del av utrustningens funktion.
- Dessutom går det inte att lägga till nya koder till fjärrkontrollens existerande förvalda kanaler.
- Även om erhållna fjärrkontrollkoder är korrekt vid tryckningen, kan de ändras av tillverkaren.
遙控代碼

1. 按住想指定編碼的 REMOTE MODE（遙控模式）按鈕時，同時按住 [DISPLAY]（顯示）（約 3 秒）。REMOTE MODE（遙控模式）按鈕 / 遙控指示燈亮起。

在 Integra 系列產品上，按鈕名稱為大寫，例如，「Remote Mode」（遙控模式）按鈕和「Display」（顯示）按鈕。

注意：
- [RECEIVER (接收機)] 和多區域按鈕不能輸入遙控編碼。
- 您只能為 [TV (電視)] 輸入電視遙控編碼。
- 除 [RECEIVER (接收機)]、[TV (電視)] 和多區域按鈕外，您可針對 REMOTE MODE（遙控模式）按鈕指定任何類別的遙控編碼。但是，這些按鈕仍可用作輸入選擇器按鈕，因此，請選擇與您設備所連接輸入信對應的 REMOTE MODE 按鈕。例如，如果要將 CD 播放機連接到 CD 輸入端，則需在輸入遙控編碼時選擇 [TV/CD]。

2. 在 30 秒內，使用數字按鈕輸入 5 位數的遙控編碼。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈閃爍兩次。

如果無法成功輸入遙控編碼，REMOTE MODE（遙控模式）按鈕 / 遙控指示燈會慢慢地閃爍一次。

注意：
- 視您的 AV 接收機型號而定，遙控器的閃爍元件會有不同。
- 遙控器已預先設定有不同設備的遙控器預設信，透過輸入遙控編碼清單中的編碼，您可啟用該設備的相關預設信。
- 當有多個編碼與同一製造商相關時，請嘗試一個接著一個輸入，直到與您的設備對應為止。
- 視設備的型號和年份而定，並不保證與本公司產品相容。
- 在某些型號上，遙控器可能無法工作，或是其兼容性限於部份設備功能。
- 除此之外，您無法新增編碼至現有的遙控器預設信。
- 雖然所提供之遙控編碼在本文件列印時為正確，製造商仍可能會對其作出修改。

遙控代碼

1. 按住想指定編碼的 REMOTE MODE（遙控模式）按鈕的同時，按住 [DISPLAY (顯示)]（約 3 秒）。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈亮起。

Integra 產品上的按鈕名稱單詞首字母大寫。例如，“Remote Mode（遙控模式）”按鈕和 “Display（顯示）”按鈕。

注意：
- [RECEIVER（接收機）] 和多區域按鈕不能輸入遙控編碼。
- 您只能為 [TV（電視）] 輸入電視遙控編碼。
- 除 [RECEIVER（接收機）]、[TV（電視）] 和多區域按鈕外，不能為 REMOTE MODE（遙控模式）按鈕指定任何類別的遙控編碼。但是，這些按鈕仍可用作輸入選擇器按鈕，因此，選擇與設備所連接的輸入信對應的 REMOTE MODE（遙控模式）按鈕。例如，如果要將 CD 播放機連接到 CD 輸入端，應在輸入遙控編碼時選擇 [TV/CD（電視 /CD）]。

2. 在 30 秒內，使用數字按鈕輸入 5 位數的遙控編碼。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈閃爍兩次。

如果不能順利輸入遙控編碼，REMOTE MODE（遙控模式）按鈕 / 遙控指示燈會緩慢閃爍一次。

注意：
- 根據 AV 接收機產品類型的不同，遙控器閃爍元素將會不同。
- 遙控器採用不同設備的遙控器預設信進行預配置。通過從遙控器編碼列表輸入編碼，便可激活相應設備的相關預設信。
- 單個製造商發送多個編碼時，請嘗試逐個輸入，直至符合當前設備。
- 根據設備的產品類型和年份的不同，無法保證兼容性。
- 對於某些產品類型，遙控器可能無法工作或其兼容性可能受到部分設備功能性的限制。
- 此外，可能無法將新的編碼追加到現有的遙控器預設信。
- 尽管印刷時所提供的遙控編碼是正確的，但製造商會隨時更改。
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Remote Control Codes
Remote Control Codes

### IPTV/PVR Combination
- AT&T: 00858, 02294
- BT Vision: 00858, 02345, 02378
- Cisco: 00858, 02378
- Kreatel: 01385
- Motorola: 00858, 02378
- Neuf TV: 03107
- Philips: 02294
- Scientific Atlanta: 00858
- SFR: 03107
- Verizon: 02378

### CD
- Advantage: 70032
- AH!: 70215
- Aiwa: 70215
- Arcam: 70215
- Atoll Electronique: 70215
- Audio Research: 70215
- Audiolab: 70215
- Audiomeca: 70215
- Audioton: 70215
- AVI: 70215
- Balanced Audio Technology: 70215
- Cairn: 70215
- California Audio Labs: 70029, 70303
- Cambridge: 70215
- Cambridge Audio: 70215
- Carver: 70215
- CCE: 70215
- Cyrus: 70215
- Denon: 70626, 70766
- DKK: 70000
- DMX Electronics: 70215
- Dynaco: 70215
- Genexxa: 70000, 70032
- Goldmund: 70157
- Grundig: 70157
- Harman/Kardon: 70157
- Hitachi: 70032
- Integra: 71817, 70101
- JVC: 70072
- Kenwood: 70626, 70157, 70036
- Krell: 70157
- Linn: 70157
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- Marantz: 70626, 70029, 70157
- Matsui: 70157
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- Miro: 70000
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- Pioneer: 70032, 70101
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- Primare: 70157
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- Zonda: 70157

### MD
- Yamaha: 70490

### Cassette Deck
- Aiwa: 40029
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- Audiolab: 40029
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- Radiola: 40029
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- Revox: 40029
- Sansui: 40029
- Sony: 40243
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- Victor: 40244
- Wards: 40027, 40029
- Yamaha: 40097

### CD-R
- Denon: 70626, 70766
- JVC: 70072
- Kenwood: 70626
- Marantz: 70626
- Onkyo: 71323
- Philips: 70626
- Sony: 70000

### CD
- Yamaha: 70490

### Accessory
- Apple: 81115
- Jamo: 82228
- Logitech: 82182
- Onkyo: 82990, 81993, 82351
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**Video - Accessory**

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**Receiver**

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**Satellite Set Top Box**

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