ONKYO

AV RECEIVER

TX-NR515

Instruction Manual

Made for iPod iPhone

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Internet Radio Guide

Remote Control Codes

En

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

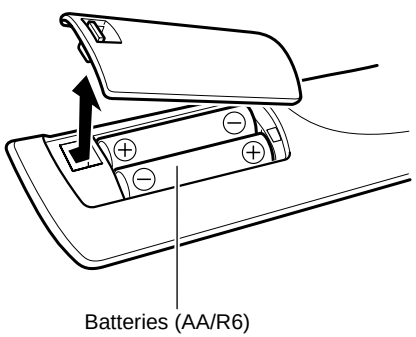
Supplied Accessories

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-834M) 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

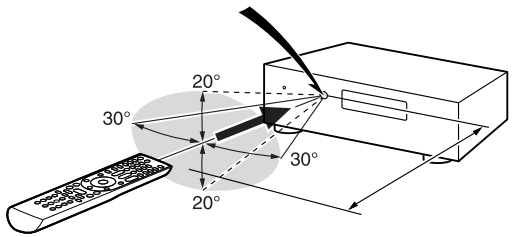


Note

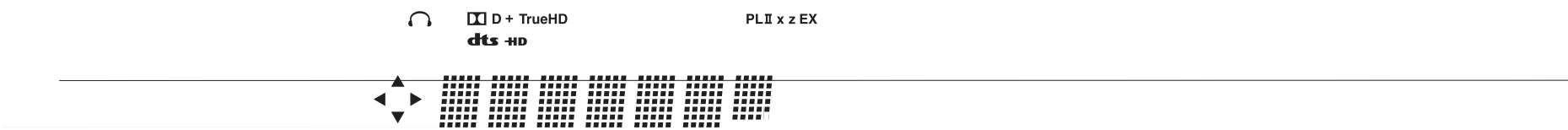
- If the remote controller doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion.
- Remove expired batteries 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.



Display



For detailed information, see the pages in parentheses.

① **Z2 (Zone 2) indicator (67)**

② **3D indicator**
This lights when a 3D input signal is detected.

③ **Headphone indicator (44)**

④ **►, ❚❚ and cursor indicators (25)**

⑤ **Listening mode and format indicators (37)**

⑥ **Audyssey indicator (34, 55)**
Dynamic EQ indicator (56)
Dynamic Vol indicator (56)

⑦ **M.Opt indicator (44, 47)**

⑧ **Tuning indicators**
RDS indicator (excluding North American and Taiwanese models) (32)
AUTO indicator (31)
TUNED indicator (31)
FM STEREO indicator (31)

⑨ **MUTING indicator (44)**

⑩ **Input indicators (86)**
HDMI indicator (62)
DIGITAL indicator

⑪ **ARC indicator (63)**

⑫ **USB indicator (25, 26)**

⑬ **NET indicator (27 to 30, 64)**

⑭ **Message area**

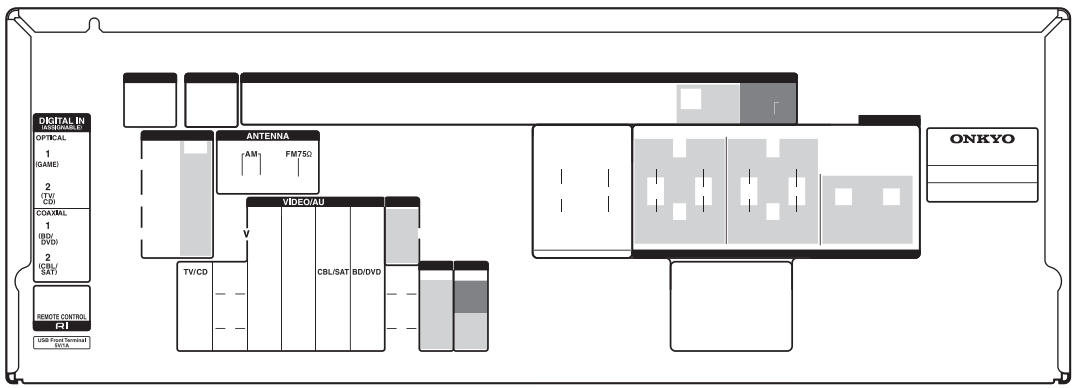
⑮ **SLEEP indicator (43)**

⑯ **Channel/Unit indicators**
ch indicator
Hz indicator
m/ft indicator
dB indicator

⑰ **ASb indicator (63)**

Rear Panel

(North American, European, Australian and Asian models)



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

Remote Controller

Controlling the AV Receiver

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 (45)
⑤ **Listening Mode** buttons (37)
⑥ **DIMMER** button (43)
⑦ **MUTING** button (44)
⑧ **DISPLAY** button (43)
⑨ **VOL** ▲/▼ button (23)
⑩ **RETURN** button
⑪ **HOME** button (42)
⑫ **SLEEP** button (43)

■ Controlling the tuner

To control the AV receiver's tuner, press **AM** or **FM** (or **RECEIVER**).

❶ ▲/▼ buttons (31)
❷ **D.TUN** button (31)
❸ **DISPLAY** button
❹ **CH +/–** button (32)
❺ **Number** buttons (31)

*1 To control a component, you must first enter the remote control code.
See "Entering Remote Control Codes" for more details (➔ page 71).

Connecting the AV Receiver

Connecting Your Speakers

Speaker Configuration

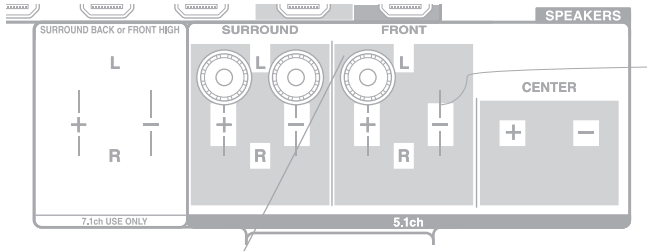
The following table indicates the channels you should use depending on the number of speakers that you have.
No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.
To get the best from your surround sound system, you need to set the speaker settings automatically (page 34) or manually (page 52).

Number of speakers	2	3	4	5	6	7	7
Front speakers							
Center speaker							
Surround speakers							
Surround back speaker*1,*2							
Surround back speakers*2							
Front high speakers*2							

*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 52) 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.

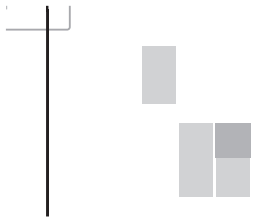
Push-type speaker terminals

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 cord directly into the center hole of the speaker terminal.

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 52).

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.

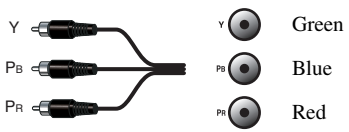
AV Cables and Jacks

HDMI

HDMI connections can carry digital video and audio.

Component video

Component video separates the luminance (Y) and color difference signals (P_B, P_R), 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*1, 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*1, Dolby Digital or DTS. The audio quality is the same as optical.

Analog audio (RCA)

Analog audio connections (RCA) carry analog audio.

*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.

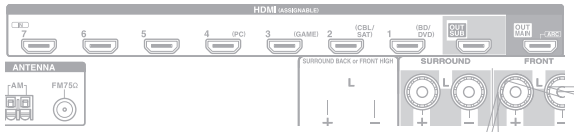
Note

- 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.

Connecting Components with HDMI



* 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 50).

See also:

- "Connection Tips and Video Signal Path" (➔ page 85)
- "Using an RIHD-compatible TV, Player, or Recorder" (➔ page 88)
- "About HDMI" (➔ page 90)

Tip

- To listen to the audio of a component connected via HDMI through your TV's speakers, enable "**HDMI Through**" (➔ page 62) 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

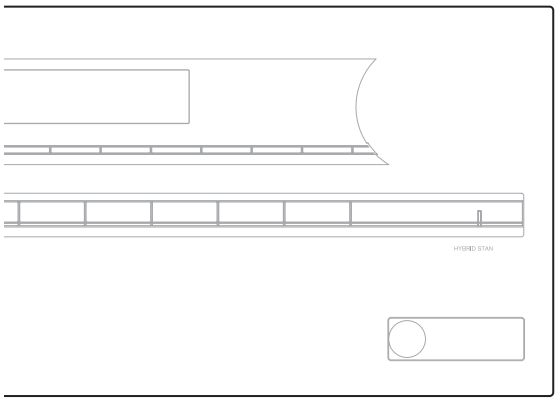
Audio Return Channel (ARC) function enables an HDMI capable TV to send the audio stream to the **HDMI OUT MAIN** of the AV receiver.

- 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 62), and
  – "**Audio Return Channel**" is set to "**Auto**" (➔ page 63).

■ 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.

Connecting Your Components



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 85).

✔: Assignment can be changed (➔ page 51).

Note

*1 When **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 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 as well, use 3 and 6.)
- With connection 6, you can listen audio from the external components while you are in Zone 2.
- 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 V (Remote Interactive), you can use the following special functions:

System On/Auto Power On
When you start playback on a component connected via V , 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 V , 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 V -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 72).

Note

- Use only V cables for V connections. V cables are supplied with Onkyo components.
- Some components have two V jacks. You can connect either one to the AV receiver. The other jack is for connecting additional V -capable components.
- Connect only Onkyo components to V jacks. Connecting other manufacturer's ome may cause a malfunction.

Turning On/Off the AV Receiver

Tip

- The **HYBRID STANDBY** indicator may light depending on the status of settings (➔ page 49).
- For details on power management settings, see “Auto Standby” (➔ page 63).

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 the HDMI OUT MAIN.

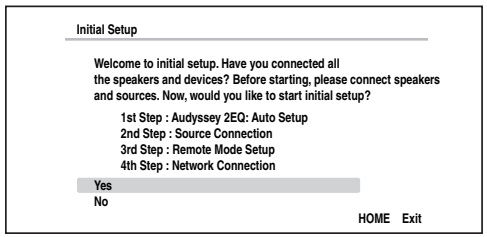
Selecting the Language for the Onscreen Setup Menus

This step determines the language used for the onscreen setup menus. See "**Language**" in "**OSD Setup**" (➔ page 61).

Tip

- Pressing **HOME** will close the setup wizard. To restart the initial setup, select "**Initial Setup**" in the "**Hardware Setup**" menu (➔ page 64).

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



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". You can always restart the initial setup by selecting "**Initial Setup**" in the "**Hardware Setup**" menu (➔ page 64).

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**".

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 70).
- **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 checkings.
- **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 64).

Playback

The on-screen menus appear only on a TV that is connected to the 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.**

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 68)
- "Controlling Other Components" (➔ page 70)

3 **To adjust the volume, use VOL ▲/▼.**

4 **Select a listening mode and enjoy!**

See also:

- "Using the Listening Modes" (➔ page 37)

■ Operating on the AV receiver

Controlling Contents of USB or Network Devices

Tip

- See “Controlling Other Components” about the operation of other components (➔ page 70).

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.

Icon	Description
	Folder
	Track
	Playback
	Pause
	Fast Forward
	Fast Reverse
	Artist
	Album
	Repeat One Track
	Repeat Folder (USB Device)
	Repeat
	Shuffle
	Shuffle Album (iPod/iPhone)

Playing an iPod/iPhone via USB

The on-screen menus appear only on a TV that is connected to the 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

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 sTi

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.

Playing Music Files on a Server

You need to connect the AV receiver to your home network (→ page 91). The on-screen menus appear only on a TV that is connected to the HDMI OUT MAIN.

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 ▲/▼/◄/► to select "dlna", and press ENTER.

Tip

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

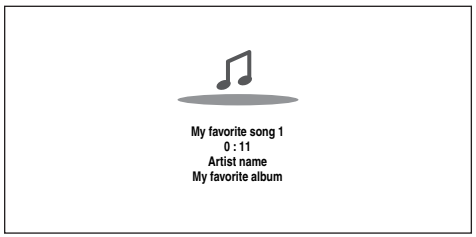
4 Use ▲/▼ to select a server, and then press ENTER.

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 able to access the content. See the instruction manual of the media server.

5 Use ▲/▼ to select an item, and then press ENTER or ► to start playback.



Note

- Depending on the media server, ◄◄/►►/❚❚ 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 91). The on-screen menus appear only on a TV that is connected to the 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 (0 dB). 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.

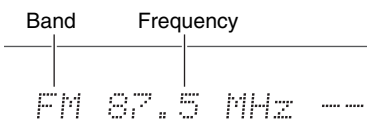
Listening to AM/FM Radio

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 61).

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



(Actual display depends on the country.)

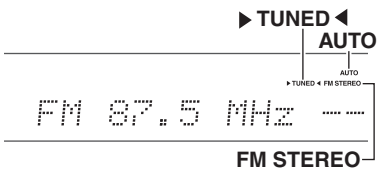
Tuning into Radio Stations

■ 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.



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.

■ 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.

(Actual display depends on the country.)

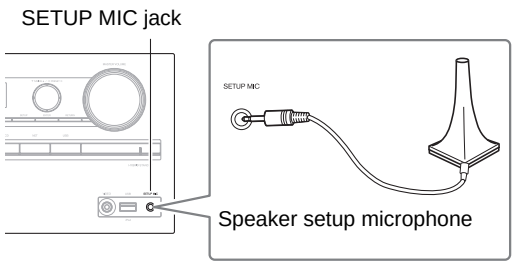
2 Within 8 seconds, use the number buttons to enter the frequency of the radio station.
For example, to tune to 87.5 (FM), press **8**, **7**, **5**.
If you have entered the wrong number, you can retry after 8 seconds.

Presetting AM/FM Stations

You can store a combination of up to 40 of your favorite
Yo

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 B, and connect it to the SETUP MIC jack.

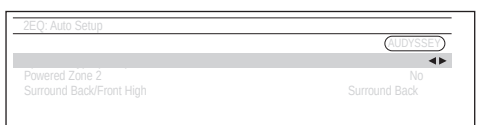


The speaker setting menu appears.

Note

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

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



Perform the "Speaker Setup" according to your speaker configuration:

– Speakers Type (Front) (page 52)
– Powered Zone 2 (page 52)
– Surround Back/Front High (page 52)

4 Use K/ X to select "Audyssey Quick Start" or "Audyssey 2EQ Full Calibration".

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 (6 (m) 8 Tf 0 9 ms

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.

Listening Mode	Description	Input Source	Speaker Layout
Dolby Pro Logic IIx[*8] **Dolby Pro Logic II** *PLⅡ Movie* *PLⅡ Music* *PLⅡ Game* *PLⅡx Movie* *PLⅡx Music* *PLⅡx Game*	**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.		
	If you're not using any surround back speakers, **Dolby Pro Logic II** will be used instead of Dolby Pro Logic IIx. • **Dolby PLIIx Movie** Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., TV, DVD, VHS). • **Dolby PLIIx Music** Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g., CD, radio, cassette, TV, VHS, DVD). • **Dolby PLIIx Game** Use this mode with video games, especially those that bear the Dolby Pro Logic II logo.	STEREO	3.1 5.1 7.1
	• **Dolby PLIIx Movie** • **Dolby PLIIx Music** These modes use the Dolby Pro Logic IIx modes to expand 5.1-channel sources for 7.1-channel playback.	5.1ch	7.1-SB
Dolby Pro Logic IIz Height *PLⅡz Height*	**Dolby Pro Logic IIz 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.	STEREO 5.1ch 7.1ch DTS-ES DD EX	7.1-FH
Dolby EX *Dolby EX* *Dolby D EX*	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.	5.1ch DD EX	7.1-SB

Listening Mode	Description	Input Source	Speaker Layout
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.		
Neo:6 Cinema *Neo:6 Music*	• **DTS Neo:6 Cinema** Use this mode with any stereo movie (e.g., TV, DVD, VHS). • **DTS Neo:6 Music** Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD).	STEREO	3.1 5.1 7.1
Neo:6	• **DTS Neo:6** This mode uses DTS Neo:6 to expand 5.1-channel sources for 6.1/7.1-channel playback.	5.1ch	7.1-SB

Note

*1 **(North American and Taiwanese models)** This listening mode is not available.
*2 Pure Audio cannot be selected when Zone 2 is active.
Besides, if you activate Zone 2 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.
• The listening modes cannot be selected with some source formats.

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 the 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 F/ S or R/ X 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 91).

`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 R/ X/ F/ S to select the desired service. Pressing ENTER again switches to that selection. If you want to play music files on a server or to perform remote playback, use R/ X/ F/ S 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 R/ X to select the desired folder or track. Pressing ENTER as a track is selected will start playback.

Note

- Only 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 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). Use R/ X or F/ S 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 63).

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 58).

Setup

`With this selection, you can access the common settings of the on-screen Setup menu.
Press ENTER to display the Setup menu (page 48).

Tip

- You can also access frequently used settings from Quick Setup (page 45).

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 81).

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 the remote controller's **Q SETUP**.
- See "Music Optimizer" for more details (➔ page 47).

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.

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 the 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 46)

▸ You can change the following settings: "**Bass**", "**Treble**", "**Subwoofer Level**", "**Center Level**", "**Audyssey**", "**Dynamic EQ**", "**Dynamic Volume**", "**Late Night**", "**Music Optimizer**", and "**Cinema Filter**".

■ Video

▸ You can change the following settings: "**Wide Mode**" and "**Picture Mode***2".

See also:
- "Picture Adjust" (➔ page 58)

■ Information*3

▸ You can view the information of the following items: "**Audio**", "**Video**" and "**Tuner**".

■ Listening Mode*4

▸ You can select the listening modes that are grouped in the following categories: "**MOVIE/TV**", "**MUSIC**", "**GAME**".
Use ▲/▼ to select the category and ◄/► to select the listening mode. Press **ENTER** to switch to the selected listening mode.

Note

- When the "**Monitor Out**" setting is set to "**Sub**", "**Video**" cannot be selected.

*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 Only when you have selected "**Custom**" in the "**Picture Mode**" (➔ page 58), 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.

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

*4 • This setting is not available in either of the following cases:
  – The "**Audio TV Out**" setting is set to "**On**" (➔ page 62).
  – "**HDMI Control(RIHD)**" is set to "**On**" (➔ page 62) 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 45).

Note

- These settings are not available in either of the following cases:
  – The "**Audio TV Out**" setting is set to "**On**" (➔ page 62).
  – "**HDMI Control(RIHD)**" is set to "**On**" (➔ page 62) 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 Direct or Pure Audio (**European, Australian and Asian models**) 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

■ Center Level

▸**–12dB** 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 53) before setting the AV receiver to standby.

Note

- You cannot use these 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 52) cannot be adjusted.

Audyssey

■ Audyssey

See "Audyssey" in "Source Setup" (➔ page 55).

■ Dynamic EQ

See "Dynamic EQ" in "Source Setup" (➔ page 56).

■ Dynamic Volume

See "Dynamic Volume" in "Source Setup" (➔ page 56).

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.
- The setting is stored individually for each input selector.

Late Night

■ 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**
- **On**

Turn this setting on to reduce the dynamic range of Dolby Digital material so that you can still hear quiet parts even when listening at low volume levels—ideal for watching movies late at night when you don't want to disturb anyone.

Note

- The effect of the Late Night function depends on the material that you are playing and the intention of the original sound designer, and with some material there will be little or no effect when you select the different options.
- The Late Night function can be used only when the input source is Dolby Digital, Dolby Digital Plus, or Dolby TrueHD.
- The Late Night function is set to "**Off**" when the AV receiver is set to standby. For Dolby TrueHD sources, it will be set to "**Auto**".
- With Dolby TrueHD sources, the Late Night function cannot be used when "**TrueHD Loudness Management**" is set to "**Off**".

Music Optimizer

■ Music Optimizer

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

The Music Optimizer function enhances the sound quality of compressed music files. When set to "**On**", the **M.Opt** indicator lights on the AV receiver's display, and the **MUSIC OPTIMIZER** indicator **(North American and Taiwanese models)** lights on the front panel.

Tip

- **(North American and Taiwanese models)** Alternatively, you can use **MUSIC OPTIMIZER** on the AV receiver.

Note

- The Music Optimizer function only works with PCM digital audio input signals with a sampling rate below 48 kHz and analog audio input signals.
- The Music Optimizer is disabled when the Direct or Pure Audio (**European, Australian and Asian models**) listening mode is selected.
- The setting is stored individually for each input selector.

CinemaFILTER

■ Cinema Filter

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

Turn this setting on to soften overly bright movie soundtracks, which are typically mixed for reproduction in a movie theater.

CinemaFILTER can be used with the following listening modes: Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Pro Logic IIx Movie, Dolby Pro Logic II Movie, Dolby Pro Logic IIz Height, Multichannel, DTS, DTS-ES, DTS Neo:6 Cinema, DTS 96/24, DTS Neo:6, DTS-HD High Resolution Audio, DTS-HD Master Audio and DTS Express.

Note

- The CinemaFILTER may not work when used with certain input sources.

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.

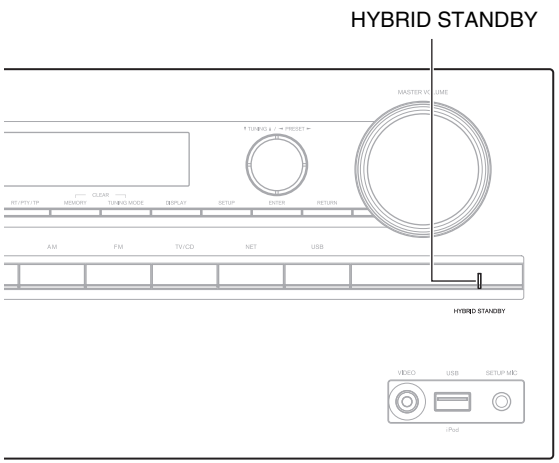
Explanatory Notes

① Main Menu
② Sub Menu
③ Setting target
④ Setting options (default setting underlined)

About the HYBRID STANDBY indicator

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 is charging (MHL), the **HYBRID STANDBY** indicator won't light.

Setup menu items

Main menu item	Sub menu item
Input/Output Assign (➔ page 50)	Monitor Out
	HDMI Input
	Component Video Input
	Digital Audio Input
Speaker Setup (➔ page 52)	Speaker Settings
	Speaker Configuration
	Speaker Distance
	Level Calibration
Audio Adjust (➔ page 54)	Multiplex/Mono
	Dolby
	DTS
	Theater-Dimensional
Source Setup (➔ page 55)	Audyssey
	IntelliVolume
	A/V Sync
	Name Edit
	Picture Adjust
	Audio Selector
Listening Mode Preset (➔ page 60)	BD/DVD
	CBL/SAT
	GAME
	PC
	AUX
	TUNER
	TV/CD
	NET
	USB
	EXTRA1
	EXTRA2
Miscellaneous (➔ page 61)	Volume Setup
	OSD Setup
Hardware Setup (➔ page 61)	Tuner
	HDMI
	Auto Standby
	Network
	Initial Setup
Remote Controller Setup (➔ page 65)	Remote ID
	Remote Mode Setup
Lock Setup (➔ page 65)	Setup

Input/Output Assign

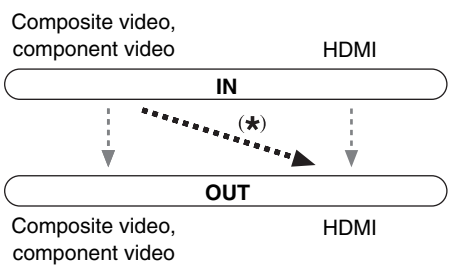
1 (RECEIVER) ►2 (HOME) ►3 (ENTER) ►4 "Setup" ►5 (ENTER)

Main Menu | Input/Output Assign

Monitor Out

On the "**Monitor Out**" settings, you can select whether or not to have the video sources' images output through the HDMI output.

If you connect your TV to HDMI output, "**Monitor Out**" setting is automatically set and composite video and component video sources are upconverted* and output.



Note

- See "Video Connection Formats" (➔ page 85) for charts showing how the "**Monitor Out**" and "**Resolution**" settings affect the video signal flow through the AV receiver.

■ 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.

■ 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 the **HDMI OUT MAIN** and have the AV receiver upconvert the picture resolution as necessary to match the resolution supported by your TV.

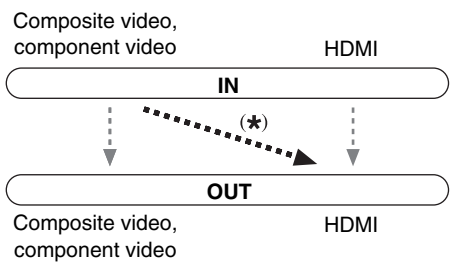
Note

- 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**".

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 85).



Here are the default assignments.

Input selector	Default assignment
BD/DVD	**HDMI1**
CBL/SAT	**HDMI2**
GAME	**HDMI3**
PC	**HDMI4**
AUX	**FRONT** (Fixed)
TV/CD	**- - - - -**
EXTRA1	**- - - - -**
EXTRA2	**- - - - -**

↳ To be continued

■ **BD/DVD**, **CBL/SAT**, **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 45).

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 59).
- Do not assign an **HDMI IN** to the **TV/CD** selector while "**HDMI Control(RIHD)**" is set to "**On**" (➔ page 62), 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 62), 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.

Input selector	Default assignment
BD/DVD	**- - - - -**
CBL/SAT	**IN1**
GAME	**- - - - -**
PC	**- - - - -**
AUX	**- - - - -** (Fixed)
TV/CD	**- - - - -**
EXTRA1	**- - - - -**
EXTRA2	**- - - - -**

■ **BD/DVD**, **CBL/SAT**, **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 45).

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 87).
- "**AUX**" is fixed to the "**- - - - -**" option.

Digital Audio Input

If you connect a 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.

Input selector	Default assignment
BD/DVD	**COAXIAL1**
CBL/SAT	**COAXIAL2**
GAME	**OPTICAL1**
PC	**- - - - -**
AUX	**- - - - -** (Fixed)
TV/CD	**OPTICAL2**
EXTRA1	**- - - - -**
EXTRA2	**- - - - -**

■ **BD/DVD**, **CBL/SAT**, **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 45).

Note

- When an **HDMI IN** is assigned to an input selector in "**HDMI Input**" (➔ page 50), 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 59).
- 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.

Speaker Setup

1 RECEIVER ► 2 HOME ► 3 ENTER ► 4 "Setup" ► 5 ENTER

Main menu > Speaker Setup

Some of the settings in this section are set automatically by Audyssey 2EQ® Room Correction and Speaker Setup (➔ page 34).

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.

■ 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 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 can 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.

■ Subwoofer

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

■ Front

- **Full Band**
- **40Hz** 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 **100Hz**, **120Hz**, **150Hz**, **200Hz**
- **None**

■ Front High*1*2*3*5

- **Full Band**
- **40Hz** to **100Hz**, **120Hz**, **150Hz**, **200Hz**
- **None**

■ Surround Back*1*2*3*4

- **Full Band**
- **40Hz** to **100Hz**, **120Hz**, **150Hz**, **200Hz**
- **None**

Note

*1 "**Full Band**" can be selected only when "**Full Band**" is selected in the "**Front**" setting.
*2 If the "**Surround**" setting is set to "**None**", this setting cannot be selected.
*3 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.
*4 If anything else than "**None**" is selected in "**Front High**", this setting is automatically set to "**None**".
*5 If anything else than "**None**" is selected in "**Surround Back**", this setting is automatically set to "**None**".

■ 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.

■ Double Bass

This setting is **NOT** set automatically by Audyssey 2EQ® Room Correction and Speaker Setup (➔ page 34).

▸ **On**

▸ **Off**

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.

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, Subwoofer

▸ 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 52).
- 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.

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 62).
  – "**HDMI Control(RIHD)**" is set to "**On**" (➔ page 62) and you're listening through your TV speakers.
  – The AV receiver is muted.

■ Left, Front High Left, Center*1, Front High Right, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left

▸ **–12dB** to **0dB** to **+12dB** in 1 dB steps.

■ Subwoofer*1

▸ **–15dB** to **0dB** to **+12dB** in 1 dB steps.

Note

- Speakers that you set to "**No**" or "**None**" in "Speaker Configuration" cannot be selected (➔ page 52).
- 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.

*1 For the center speaker and subwoofer, the level settings made by using the Quick Setup are saved in this menu (➔ page 46).

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.

Audio Adjust

1 (RECEIVER) ►2 (HOME) ►3 (ENTER) ►4 "Setup" ►5 (ENTER)

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.

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.

■ PL IIz Height Gain

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

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 52), 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 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 52), 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**

▸**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**".

DTS

■ Neo:6 Music

Center Image

▸**0** to **2** to **5**

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).

Theater-Dimensional

■ Listening Angle

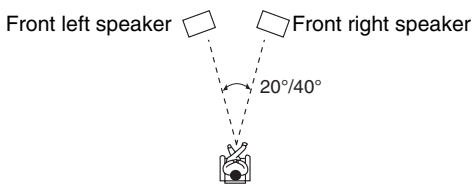
▸**Wide**:

Select if the listening angle is 40 degrees.

▸**Narrow**:

Select if the listening angle is 20 degrees.

With this setting, you can optimize the Theater-Dimensional listening mode by specifying the angle of the front left and right speakers relative to the listening position. Ideally, the front left and right speakers should be equidistant from the listening position and at an angle close to one of the two available settings.



Source Setup

1 RECEIVER ► 2 HOME ► 3 ENTER ► 4 "Setup" ► 5 ENTER

Items can be set individually for each input selector.

Preparation

Press the input selector buttons to select an input source.

Main menu > Source Setup

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.

■ Audyssey

▸**Off**

▸**Movie**:

Select this setting for movie material.

The **Audyssey** indicator will light.

▸**Music**:

Select this setting for music material.

The **Audyssey** indicator will light.

Note

- When "**Audyssey Quick Start**" has been used for measurement, "**Audyssey**" cannot be selected.
- Audyssey equalizing does not work with DSD sources.

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 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**".

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.

IntelliVolume

■ IntelliVolume

▶ **–12dB** to **0dB** to **+12dB** in 1 dB steps.

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 ◄/► to set the level.

If a component is noticeably louder than the others, use ◄ to reduce its input level. If it's noticeably quieter, use ► to increase its input level.

Note

- IntelliVolume does not work for Zone 2.

A/V Sync

■ A/V Sync

▶ **0 msec** to **800 msec** in 10 msec steps

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 63).

Note

- 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.
- This setting cannot be used with the **NET** input selector.

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.

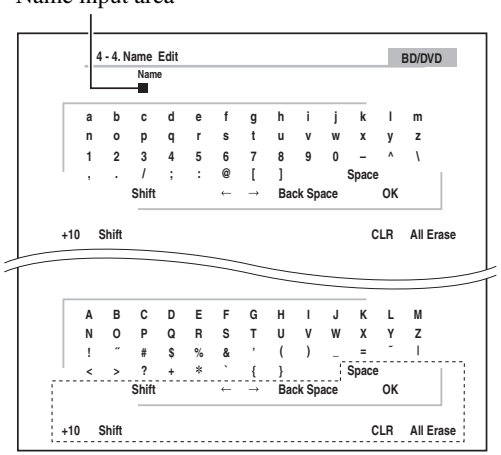
■ Name

1 Use ▲/▼/◄/► 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 ▲/▼/◄/►, and then press ENTER.

Name input area



Space:
Enters a space character.

Shift[*1]:
Toggles between lower and upper case characters.

← (Left)/ → (Right):
Moves the cursor left or right in the Name input area.

Back Space[*2]:
Moves the cursor backward and deletes one character.

OK:
Confirms your entry.

Tip

*1 This can also be performed by using **+10** on the remote controller.

*2 Press **CLR** on the remote controller to delete all the characters you have input.

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 selector.

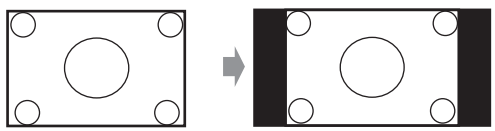
Picture Adjust

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**.

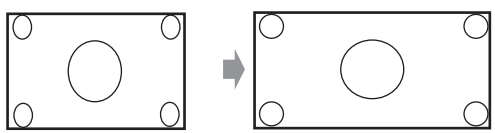
■ Wide Mode*1*6

This setting determines the aspect ratio.

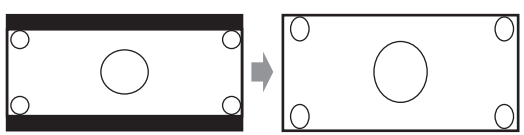
▸ **4:3**:



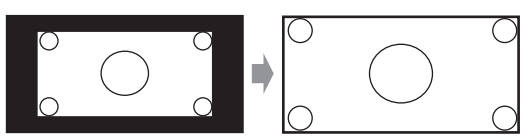
▸ **Full**:



▸ **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 50).

■ Picture Mode*1

▸ **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**".

■ Game Mode*2*3*4

▸ **Off**

▸ **On**

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.

■ Film Mode*2*4

▸ **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*2*4*5

▸ **Off**

▸ **Low**

▸ **Mid**

▸ **High**

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

■ Noise Reduction*2*4*5

▸ **Off**

▸ **Low**

▸ **Mid**

▸ **High**

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

Brightness[*1][*2][*4]

▸ **–50** to **0** to **+50**

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

Contrast[*1][*2][*4]

▸ **–50** to **0** to **+50**

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

Hue[*1][*2][*4]

▸ **–50** to **0** to **+50**

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

Saturation[*1][*2][*4]

▸ **–50** to **0** to **+50**

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

Color Temperature[*2][*4]

▸ **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 45).

*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 50), 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**".

Audio Selector

Audio Selector

▸ **ARC**:
The audio signal from your TV tuner can be sent to the **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 the input source that is assigned as **HDMI IN**, **COAXIAL IN**, or **OPTICAL IN**.
- This setting cannot be used with the **NET** and **USB** input selector.

*1 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 63).

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

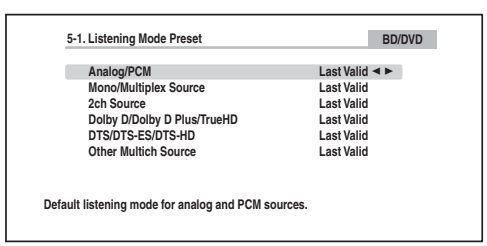
1 (RECEIVER) ► 2 (HOME) ► 3 (ENTER) ► 4 "Setup" ► 5 (ENTER)

Main menu **Listening Mode Preset**

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.

1 Use ▲/▼ to select the input source that you want to set, and then press ENTER.

The following menu appears.



2 Use ▲/▼ to select the signal format that you want to set, and then use ◄/► to select a listening mode.

Only listening modes that can be used with each input signal format can be selected (➔ pages 37 to 41).

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 selector, 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.

Miscellaneous

Main menu > Miscellaneous

Volume Setup

■ Maximum Volume

▸ **Off**, **30** to **79**

With this setting, you can limit the maximum volume.

To disable this setting, select "**Off**".

■ Power On Volume

▸ **Last**, **Min**, **1** to **79** or **Max**

With this setting, 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**" cannot be set higher than the "**Maximum Volume**" setting.

■ Headphone Level

▸ **–12dB** to **0dB** to **+12dB**

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

▸ **3 min**, **5 min**, **10 min**

▸ **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

Main Menu > 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

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 88).

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 "**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**".

HDMI Through

- **Off**
- **BD/DVD**, **CBL/SAT**, **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 49).

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 the input source assigned to the **HDMI IN** via "**HDMI Input**" is enabled (➔ page 50).
- 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 the **HDMI OUT MAIN** of the AV receiver.

The audio return channel (ARC) function allows an ARC capable TV to send the audio stream to the **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 59).

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.

■ 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 (➔ page 42) 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 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.

Note

- If you select "**Disable**", you must configure the "**IP Address**", "**Subnet Mask**", "**Gateway**", and "**DNS Server**" settings yourself.

■ IP Address

- Class A:
  "**10.0.0.0**" to "**10.255.255.255**"
- Class B:
  "**172.16.0.0**" to "**172.31.255.255**"
- Class C:
  "**192.168.0.0**" to "**192.168.255.255**"

Enter a static IP address provided by your Internet Service Provider (ISP).

Most routers use Class C IP addresses.

■ Subnet Mask

Enter the subnet mask address provided by your ISP (typically **255.255.255.0**).

■ Gateway

Enter the gateway address provided by your ISP.

■ DNS Server

Enter the DNS server address provided by your ISP.

■ Proxy URL

To use a Web proxy, enter its URL here.

■ Proxy Port

If you're using a Web proxy, enter a proxy port number here.

■ 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 49).

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).

Remote Controller Setup

1 RECEIVER ►2 HOME ►3 ►4 "Setup" ►5 ENTER

Main Menu > Remote Controller Setup

Remote ID

■ 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 70).

Lock Setup

1 RECEIVER ►2 HOME ►3 ►4 "Setup" ►5 ENTER

Main Menu > Lock Setup

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.

Zone 2

In addition to the main listening room, you can also enjoy playback in another room, as we call Zone 2. And, you can select a different source for each room.

Making Zone 2 Connections

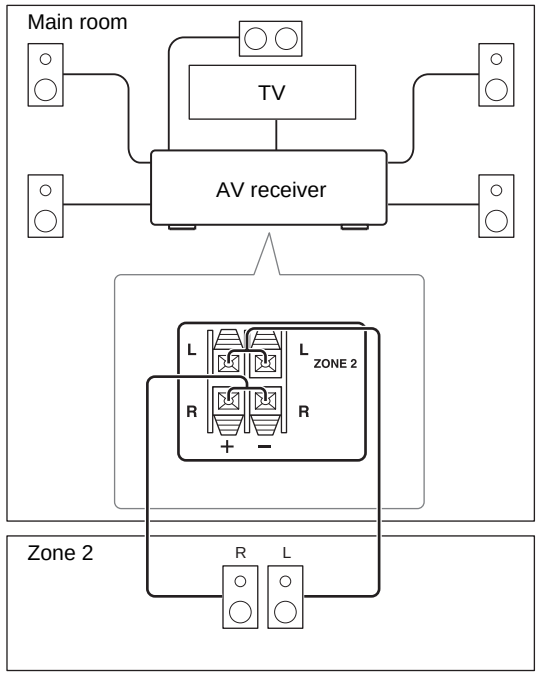
There are two ways you can connect Zone speakers:

1. Connect them directly to the AV receiver.
2. Connect them to an additional amplifier.

Connecting the Zone 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 52).

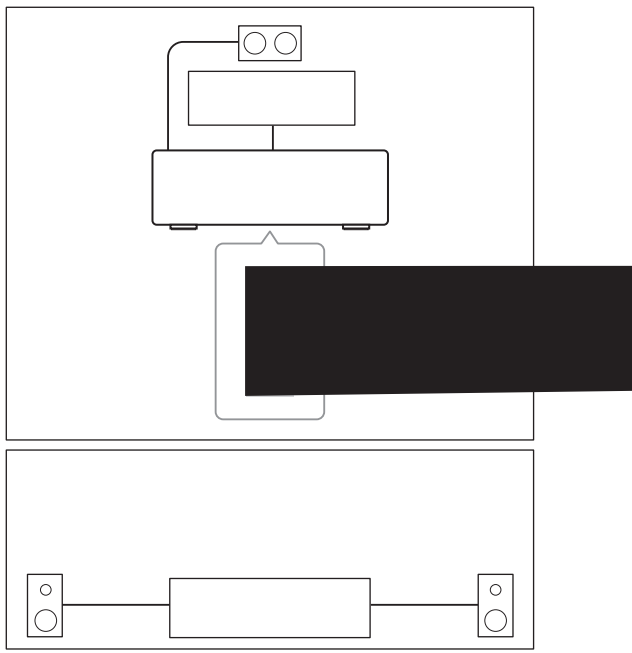


Note

- 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.



Note

- The volume of Zone 2 must be set on the Zone 2 amplifier.

iPod/iPhone Playback via Onkyo Dock

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.

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 71).
- 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 43).

■ 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.

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 71).

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 RI). In this case, make an RI connection and enter the remote control code **81993** (with RI).

With the RI Control

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

- Set the AV receiver's Input Display to "**DOCK**" (➔ page 43).

Without the RI Control

You must enter the remote control code **82990** first (➔ page 72).

RI Dock operation

- With some iPod/iPhone models, generations and RI Docks, certain buttons may not work as expected.
- For detailed operation of iPod/iPhone, please refer to the instruction manual of the RI Dock.

*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 73)
TV/CD	Onkyo CD player (➔ page 72)

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.**
   The menu of category selection appears.
6. **Use ▲/▼ to select a category, and then press ENTER.**
   The keyboard screen for brand name input appears.
7. **Use ▲/▼/◄/► to select a character, and then press ENTER.**
   Repeat this step for the first three characters of the brand name.
   When you have entered the 3rd character, select "**Search**" and press **ENTER**.
   A list of brand names is retrieved.
   If the desired brand name is not found:
   Use ► to select "Not Listed", and then press ENTER.
   The keyboard screen for brand name input appears.
8. **Use ▲/▼ to select a brand, and then press ENTER.**
   A remote control code with its instructions are displayed. Follow the procedure.
9. **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 72).

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 is active.

Remote Control Codes for Onkyo Components Connected via RI

Onkyo components that are connected via RI 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 RI cable and an analog audio cable (RCA).**
   See "Connecting Onkyo RI 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 RI
   - **81993**:
     Onkyo Dock with RI
3. **Press the REMOTE MODE button, point the remote controller at the AV receiver, and operate the component.**

Controlling Onkyo components without RI

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 RI, use the following remote control codes:

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

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 71).

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

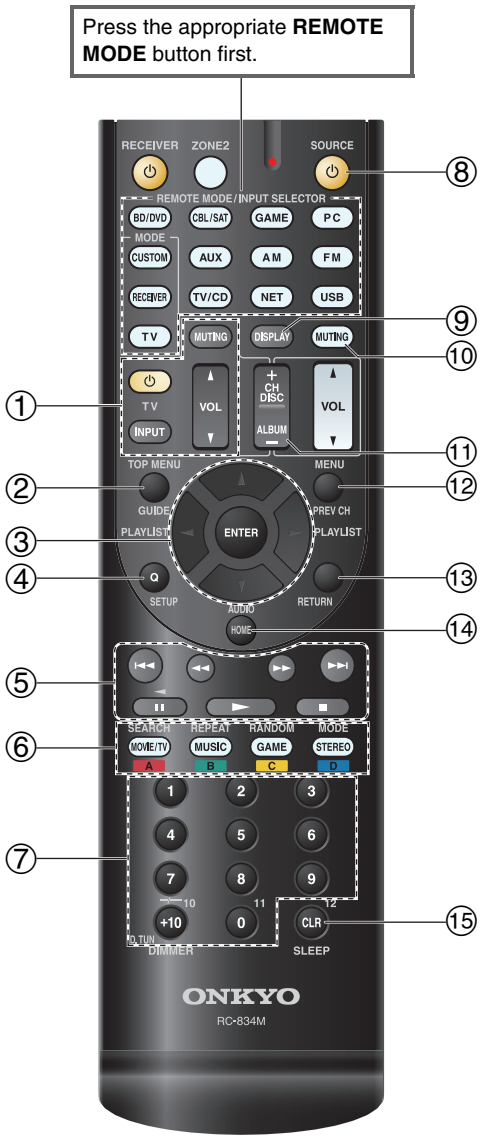
Controlling a Blu-ray Disc/DVD Player, HD DVD Player or DVD Recorder

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.



TV operation

Available buttons			
①	⏻, **INPUT**, **TV VOL ▲/▼**, **MUTING**	⑦	Number: **1** to **9**, **0**
			Number: **+10**[*1]
②	**GUIDE**	⑨	**DISPLAY**
③	**▲/▼/◄/►** **ENTER**	⑩	**MUTING**
		⑪	**CH +/–**
④	**SETUP**	⑫	**PREV CH**
⑤	►, ❚❚, ■, ◄◄, ►►, I◄◄, ►►I[*1]	⑬	**RETURN**
		⑭	**AUDIO**[*1]
⑥	**A** (Red)[*1]	⑮	**CLR**
	B (Green)[*1]		
	C (Yellow)[*1]		
	D (Blue)[*1]		

Blu-ray Disc player / HD DVD player operation

Available buttons			
②	**TOP MENU**	⑧	⏻**SOURCE**
③	**▲/▼/◄/►** **ENTER**	⑨	**DISPLAY**
		⑩	**MUTING**
④	**SETUP**	⑪	**CH +/–**
⑤	►, ❚❚, ■, ◄◄, ►►, I◄◄, ►►I		**DISC +/–**
		⑫	**MENU**
⑥	**A** (Red)	⑬	**RETURN**
	B (Green)	⑭	**AUDIO**[*1]
	C (Yellow)	⑮	**CLR**
	D (Blue)		
⑦	Number: **1** to **9**, **0**		
	Number: **+10**[*1]		

■ DVD player / DVD recorder operation

■ VCR/PVR operation

■ Cassette tape deck operation

■ Satellite receiver / Cable receiver operation

■ CD player / CD recorder / MD recorder operation

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 69).

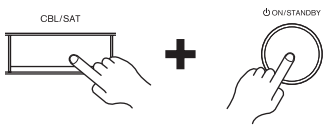
*1 The RIHD function is not supported. The RIHD supported by the AV receiver is the CEC system control function of the HDMI standard.

Troubleshooting

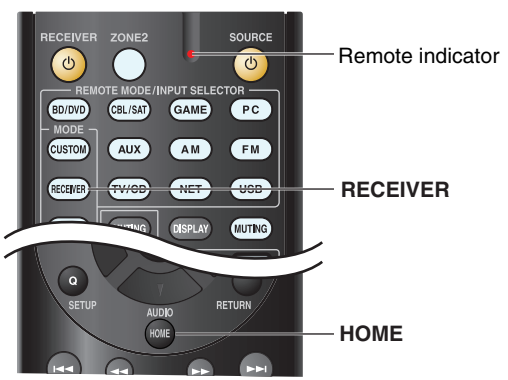
If you have any trouble using the AV receiver, look for a solution in this section. If you can't resolve the issue yourself, contact your Onkyo dealer.

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 the 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.	63

■ 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.	13

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.	51
Make sure that all audio connecting plugs are pushed in all the way.	14
Make sure that the inputs and outputs of all components are connected properly.	16-18
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.	13
Make sure that the input source is properly selected.	23
Make sure that the speaker cables are not shorting.	13
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.	44
While a pair of headphones is connected to the **PHONES** jack, no sound is output from the speakers.	44
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.	37
Specify the speaker distances and adjust the individual speaker levels.	53
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**".	59

Only the front speakers produce sound

When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound.	40
Check the Speaker Configuration.	52

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.	—
Make sure the speakers are configured correctly.	52

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.	37
Make sure the speakers are configured correctly.	52

The center speaker produces no sound

When the Stereo or Mono listening mode is selected, the center speaker produces no sound.	—
Make sure the speakers are configured correctly.	52

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.	38
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.	52
When Powered Zone 2 is used, playback in the main room is reduced to 5.1channels 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.	52

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.	37-41

Can't select the Pure Audio listening mode

(European, Australian and Asian models) The Pure Audio listening mode cannot be selected while Zone 2 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.	37-41

The speaker volume cannot be set as required

Check to see if a maximum volume has been set.	61
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.	34, 53

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.	47
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.	55

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.	—

Video

There's no picture

Make sure that all video connecting plugs are pushed in all the way.	14
Make sure that each video component is properly connected.	16, 17
If your TV is connected to the HDMI output(s), select "- - - - -" in the "**HDMI Input**" setup to watch composite video, and component video sources.	50
If the video source is connected to a component video input, you must assign that input to an input selector, and your TV must be connected to either the HDMI output(s) or **COMPONENT VIDEO OUT**.	17, 51
If the video source is connected to a composite video input, your TV must be connected to the HDMI output(s) or the corresponding composite video output.	17
If the video source is connected to an HDMI input, you must assign that input to an input selector, and your TV must be connected to the HDMI output(s).	16, 50
(European, Australian and Asian models) While the Pure Audio listening mode is selected, the video circuitry is turned off and only video signals input through **HDMI IN** can be output.	37
On your TV, make sure that the video input to which the AV receiver is connected is selected.	—

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.	90
When the resolution is set to any resolution not supported by the TV, no video is output from the HDMI outputs.	50
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.	—
When the AV receiver is not connected to a TV via **HDMI OUT MAIN**, on-screen menus are not displayed.	—

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**.	45

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.	31
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.	5
Install new batteries. Don't mix different types of batteries, or old and new batteries.	5
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.	5
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 controller mode.	11, 73
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.	71
Make sure to set the same ID on both the AV receiver and remote controller.	65

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.	18
Make sure you've selected the correct remote controller mode.	11, 73
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.	43

If you cannot operate it, you will need to enter the appropriate remote control code.	70
To control another manufacturer's component, point the remote controller at that component.	71
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.	72
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.	72
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.	69
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.	—

Zone 2

There's no sound

Only components connected to analog inputs can be played in Zone 2.	—

The Zone 2 speakers produce no sound

Powered Zone 2 cannot be used if "**Speakers Type (Front)**" is set to "**Bi-Amp**".	52

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.	91
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.	92
Check the "**Network**" settings.	64

Playback stops while listening to music files on the server

Make sure your server is compatible with the AV receiver.	92
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.	64
Check the "**Network**" settings.	64

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.	92
USB memory devices with security functions cannot be played.	—

Others

■ 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**".	62, 64
If an MHL-enabled mobile device is connected to the AUX (front) input, the power consumption in standby mode will increase.	16

■ 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**".	54

■ The ∨ functions don't work

To use ∨, you must make an ∨ connection and an analog audio connection (RCA) between the component and AV receiver, even if they are connected digitally.	18
While Zone 2 is selected, the ∨ functions don't work.	18

■ The functions System On/Auto Power On and Direct Change don't work for components connected via ∨

These functions don't work when Zone 2 is turned on.	18

■ 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**, **GAME**, **PC** 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 **GAME** and **ON/STANDBY** buttons on the AV receiver. While holding down **GAME**, 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.

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 62).
- 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 web site. 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

Error Code	Description
*-10, *-20	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.
*-14	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.
Others	Retry the update procedure from the beginning. If the error persists, please contact Onkyo Support 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.

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http://www.onkyochina.com

Asia, Oceania, Middle East, Africa
Please contact an Onkyo distributor referring to Onkyo SUPPORT site.
http://www.intl.onkyo.com/support/firmware/index.html

The above-mentioned information is subject to change without prior notice. Visit the Onkyo web site for the latest 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.

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

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

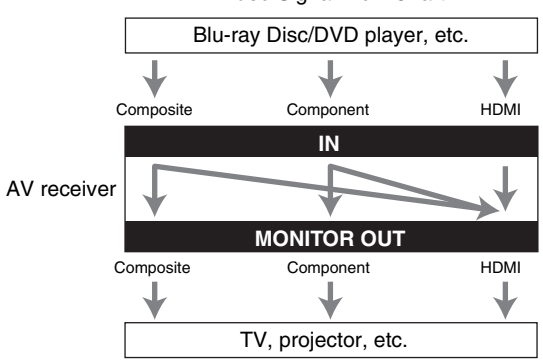
- To by-pass the upconversion, set the "**Picture Mode**" setting to "**Direct**" (➔ page 58).

■ "Monitor Out" set to "Main" or "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 the **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.

Video Signal Flow Chart



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 87).

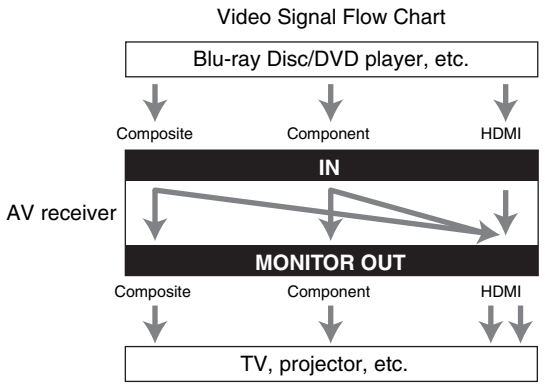
■ "Monitor Out" set to "Both"

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 the 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.

Video Signal Flow Chart



Note

- When "**Monitor Out**" is set to "**Both**", the "**Resolution**" setting cannot be selected.

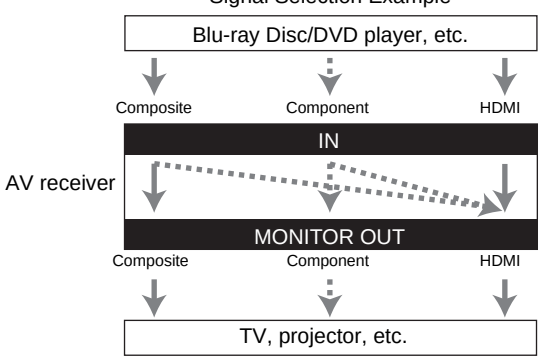
Signal Selection

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.

Signal Selection Example

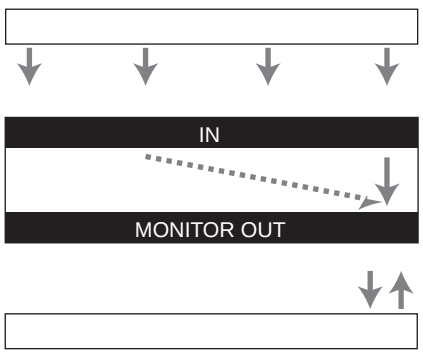


Audio Connection Formats

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.



*1 Depends on the "Audio TV Out" setting (page 62).

*2 This is possible when "Audio Return Channel" is set to "Auto" (page 63), the TV/CD input selector is selected, and your TV is ARC capable.

Tip

- 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.

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.

Supported Audio Formats

- 2-channel linear PCM (32–192 kHz, 16/20/24 bit)
- Multichannel linear PCM (up to 7.1 ch, 32–192 kHz, 16/20/24 bit)
- Bitstream (DSD, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio)

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.

LAN
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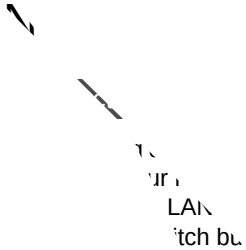

Ethernet Network

he best results, a 100Base-TX switched Ethernet
is recommended. Although it's possible to play
computer that's connected to the network
ayback may be unreliable, so it is
o use wired connections.

network, data-routing and supplying
ter must support the following:
slation). NAT allows
access the Internet
connection. The AV
rnet radio.
rotocol). DHCP
, allowing

S et
Serv
Please
unsure.

CAT5 Ether
Use a shielded C
connect the AV rece

Internet Access (for In
To receive Internet radio, yo
Internet access. A narrowband
56K modem, ISDN) will not prov
so a broadband connection is strongly
cable modem, xDSL modem, etc). Please
or computer dealer if you're unsure.

Note

- To receive Internet radio with the AV receiver, your b
Internet connection must be working and able to access th

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 64).
- 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 64).

Supported Audio File Formats

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, bitrates of between 5 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.

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.

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dts-HD Master Audio

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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.

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 ▲/▼ 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 ▲/▼ 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.

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.

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.

PANDORA internet radio

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Using Rhapsody (U.S. only)

1 Use R/ Xto select “Sign in to your account” and then pressENTER.
To use Rhapsody, you need an account. If you don’t

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: ►, ❚❚, ■, ►►|

■ 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** ».

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Pandora® internet Radio –Pour commencer (États-Unis uniquement)

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 aimez.

1 Utilisez ▲/▼ 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 webradio Pandora personnalisées. Lorsque vous y êtes invités, vous pouvez créer vos stations en saisissant 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 webradio 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.

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 Pour lire une station, utilisez ▲/▼ pour sélectionner la station dans votre liste de stations, puis appuyez sur ENTER.

La lecture débute et l'écran de lecture s'affiche.

Create 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 décideriez de récréer 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 :

Pandora marquera votre artiste préféré pour votre profil sur **www.pandora.com**.

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.

PANDORA internet radio

PANDORA, le logo PANDORA, et l'habillage commercial Pandora sont des marques commerciales ou des marques déposées de la société Pandora Media, Inc. Utilisées avec autorisation.

Utilisation de Rhapsody (Etats-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 : ►, ❚❚, ■, ◄◄, ►►, I◄◄, ►►I, **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 channel to My Channels :
Marquez les canaux de radio Rhapsody 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.

Utilisation de SiriusXM Internet Radio (Amérique du Nord uniquement)

Votre ampli-tuner AV Onkyo comprend un essai gratuit de SiriusXM Internet Radio. L'écran « Account Info » affiche le nombre de jours restants dans votre essai. Une fois la période d'essai expirée, si vous souhaitez continuer à écouter le service, vous devez vous abonner. Pour vous inscrire, accédez à l'adresse **www.siriusxm.com/internetradio** à l'aide de votre ordinateur.

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.

SiriusXM INTERNET RADIO

Les abonnements SiriusXM Internet Radio sont vendus séparément et sont subordonnés par les conditions Sirius (voir www.sirius.com). Assurez-vous de lire cet accord avant d'acquérir votre abonnement. Sirius, XM et tous les logos et marques afférents sont des marques déposées de Sirius XM Radio Inc. et de ses filiales. Tous droits réservés.

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: ►, ❚❚, ■, ◄◄, ►►, I◄◄, ►►I, **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 SiriusXM Internet Radio (solo Norteamérica)

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 ▲/▼ 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 ▲/▼/◄/► 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 ▲/▼ para seleccionar la categoría y luego pulse ENTER.

Aparece una pantalla con una lista de emisoras de la categoría seleccionada.

3 Utilice ▲/▼ 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.

SiriusXM INTERNET RADIO

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 Last.fm 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.

Pruébelo 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. Seleccione "**OK**".
3. Pulse **ENTER**. Aparecerá la pantalla "**Confirm your entries**".
4. 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**").

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.

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.

■ 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 Slacker Personal 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.

Notas

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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 2

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 ▲/▼/◄/► 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: ►, ■, ►►I

■ 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 2

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!

Recommended Radio:
Entdecken Sie smarte, persönlich angepasste Empfehlungen, die sich mit Ihrem Musikgeschmack verändern.

Artist Radio:
Wählen Sie einen beliebigen Interpreten und wir spielen für Sie einen ganzen Radiosender mit durch Ihre Wahl inspirierter Musik.

My Library:
Lehnen Sie sich zurück und erfreuen Sie sich an einer Auswahl aller Musik, die Sie seit Ihrer Mitgliedschaft bei Last.fm gehört haben.

Tag Radio:
Polish Funk? Death Pop? Denken Sie an einen Musikstil und wir unterhalten Sie stundenlang damit.

Starten Sie Ihr kostenloses Probeabo direkt wenn Sie Ihr Konto erstellen und finden Sie selbst heraus wie es ist, jederzeit die Musik der ganzen Welt abrufen zu können. Die aktuellen Nutzungspreise und umfassende Infos sind unter www.last.fm/subscribe erhältlich

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**“).

Profile:
Sie können Titel aus „**Recently Listened Tracks**“, „**Library**“ und „**Neighbours**“ wiedergeben.

Account Info:
Bestätigen Sie Ihre Kontoinformation.

Sign Out:
Zur Abmeldung aus Ihrem Konto.

3 Verwenden Sie ▲/▼, um einen Sender auszuwählen und dann drücken Sie ENTER oder ► , um die Wiedergabe zu starten.

Die Wiedergabe wird gestartet und die Wiedergabeanzeige erscheint.

Aktivierte Tasten: ►, ■, ►►|

■ Menüsymbole

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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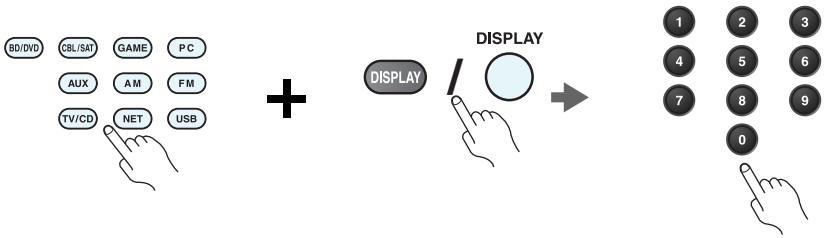
Remote Control Codes



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 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 manjuscules 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 appreil.
- 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 de cualquier categoría a 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/l'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/l'indicatore Remote lampeggia due volte.

Se il codice telecomando non viene inserito correttamente, il tasto REMOTE MODE/l'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 o 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 gedruckt, fur die Sie den Code eingeben mochten, und drucken Sie (ca. 3 Sekunden lang) die [DISPLAY]-Taste.

Die REMOTE MODE-Taste/Remote-Anzeige leuchtet.

Bei den Integra-Produkten werden die Namen der Tasten groß geschrieben. Zum Beispiel „Remote Mode“ (Fernbedienungsmodus)-Taste und „Display“-Taste.

Hinweise:

- Der Fernbedienungscode kann nicht [RECEIVER] und der Multi-Zonen-Taste zugeordnet werden.
- Der Taste [TV] können nur Fernbedienungscodes für einen Fernseher zugeordnet werden.
- Abgesehen von [RECEIVER], [TV] und der Multi-Zone-Taste, können die Fernbedienungscodes jeder Kategorie den REMOTE MODE-Tasten zugewiesen werden. Allerdings dienen diese Tasten auch als Quellenwahltasten. Wählen Sie also nach Möglichkeit eine REMOTE MODE-Taste, die dem Eingang zugeordnet ist, an den Sie die betreffende Quelle angeschlossen haben. Wenn Sie z.B. einen CD-Player an den CD-Eingang anschließen, sollten Sie [TV/CD] wenn Sie den Fernbedienungscode eingeben.

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 toetesn 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].
- Behalve voor [RECEIVER], [TV] en de multi zone-toets, kunnen afstandsbedieningscodes vanuit elke categorie worden toegewezen aan de REMOTE MODE toetsen. Deze toetsen werken overigens ook als ingangsselectortoetsen, kies dus een REMOTE MODE toets die overeenkomt met de ingang waarop u uw component wilt aansluiten. Kies indien u bijvoorbeeld uw CD-speler aansluit op de CD-ingang de [TV/CD] toets bij het invoeren van de afstandsbedieningscode.

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 voorgeprogrammeerd 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

1 Håll ned knappen för det REMOTE MODE som du vill tilldela en kod samtidigt som du trycker och håller ned [DISPLAY] (i cirka 3 sekunder).

REMOTE MODE-knapp/Fjärrindikatorlampa.

På Integra-produkter, är knappnamnens begynnelsebokstav en versal. Till exempel, ”Fjärrläge”-knapp och ”Display”-knapp.

Anmärkningar:

- Fjärrkontrollkoder kan inte anges för knapparna [RECEIVER] och flerzonsknappen.
- Endast fjärrkontrollkoder för tv kan anges för [TV].
- Förutom [RECEIVER], [TV] och flerzonsknappen, kan fjärrkontrollkoder för vilken som helst kategori tilldelas för knapparna REMOTE MODE. Dessa knappar fungerar dock även som ingångväljarknappar, så använd en knapp för REMOTE MODE som motsvarar ingången som du ansluter utrustningen till. Till exempel, om du ansluter din CD-spelare till CD-ingången ska du välja [TV/CD] när du anger dess fjärrkontrollkod.

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 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 dess 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 korrekta vid tryckningen, kan de ändras av tillverkaren.

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BT Vision	02294
Cisco	00858, 02345, 02378
Kreatel	01385
Motorola	00858, 02378
Neuf TV	03107
Philips	02294
Scientific Atlanta	00858
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Atoll Electronique	70157
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@Sky	01334
Acoustic Solutions	01284
ADB	00642, 00887, 01259
Akura	01626
Alba	01284
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AssCom	00853
Astro	00173, 01100
Atlanta	02418
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Belson	02418
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Blaupunkt	00173
Boshmann	01413, 01631
Boston	01251
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BskyB	00847, 01175, 01662
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Canal Satellite	00853, 02657
Canal+	00853, 02657
CanalSat	00853, 02657
Centrex	01457

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Chess	01334, 01626
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Clayton	01626
Com Hem	01176, 01915
Comag	01413
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Coship	01457
Crown	01284
CS	01631
Cyfra+	01409
Cyfrowy Polsat	00853, 02527
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Dgtec	01242, 01631, 02418
Dick Smith Electronics	02418
Digi Raum Electronics	01176
Digiality	01334
Digifusion	01645
Digihome	01284
DigiLogic	01284
DigiQuest	01300, 01457, 01631
Digisky	01457
DigitalBox	01100, 01631
Digiwave	01631
DirecTV	01377, 00099
Dish Network	00775
Dishpro	00775
DishTV	01300
DRE	01176
Dream Multimedia	01237
DSE	02280, 02418
DSTV	00879, 00642, 01433

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Durabrand	01284
Echostar	00775, 00853, 01323, 01409, 02527
Eco-Star	01413
Edision	01631
Elap	01413, 01567
Elbe	02418
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Engel	01251
EuroLine	01251
Europhon	01334
Europsat	01413, 01611
Expressvu	00775
Fagor	01611
Ferguson	01291
Finlux	01626
Fly Com	01457
FMD	01413, 01457
Foxtel	00879, 01176, 01356
Freesat	02408
Fuba	00173, 01251
Galaxis	00853, 00879
General Satellite	01176
Globo	01251, 01334, 01626
GOI	00775
Gold Box	00853
Gold Vision	01631
GoldMaster	01334
Goodmans	01284, 01291
Gradiente	00099, 00887
Grandin	01626
Grocos	01409, 01457
Grundig	00847, 00853, 00173, 00879, 01284, 01291
Haier	02418
Hallo	01626

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Hama	01567
Hanseatic	01100
Hirschmann	00173
Hitachi	01284
Hornet	01300
HTS	00775
Humax	01377, 01176, 01427, 01675, 01808, 01882, 01915, 02144, 02408, 02616
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Indovision	00887
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Innova	00099
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iotronic	01413
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KabelBW	01195, 01882, 01915
Kaon	01300
Kathrein	00173, 01561, 01567
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Kreiselmeyer	00173
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Lava	01631

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Leiko	01626
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Manhattan	01300
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Matsui	00173, 01284, 01626
Maximum	01334
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Mediacom	01206
MediaSat	00853
Medion	01334, 01626
MegaSat	01631
Metronic	01334, 01413, 01631, 02418
Metz	00173
Moserbaer	01251
Movistar	02527, 02761
Multichoice	00879, 00642, 01433, 02059, 02060
MySky	01356, 01693, 01850
NEOTION	01334
Netsat	00099, 00887
Nikko	00723
Nokia	00853, 00723, 01223
Nordmende	01611
NPG	01631
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Optex	01413, 01611, 01626
Optus	00879, 01356
Orbis	01334
Orbitech	01100, 01195

Satellite Set Top Box	
Pace	00847, 00853, 00887, 01175, 01323, 01356, 01423, 01662, 01693, 01850, 02059, 02060, 02211, 02657
Pacific	01284
Palcom	01409, 01611
Panasat	00879, 01433
Panasonic	00847, 01304, 01404, 03099
Panda	00173
Pass	01567
peeKTon	01457, 02418
Philips	00099, 00853, 00173, 01114, 00887, 00133, 02211
Phoenix	02418
Pino	01334
Pioneer	00853, 01308
PMB	01611
Premiere	00723
Pro Basic	00853
Proline	01284
QNS	01404
RCA	01291
Regal	01251
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Rollmaster	01413
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SAB	01251, 01300, 01631
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Samsung	01377, 00853, 01175, 01206, 01458, 01662, 02986
Sansui	01251
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Sat Industrie	01611
SAT+	01409
Satplus	01100
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Schneider	01206, 01251
Schwaiger	01334, 01457, 01631
Sedea Electronique	01206, 01626
SEG	01251, 01284, 01626
Servimat	01611
ServiSat	01251
Shark	01631
Sherwood	01409
Siemens	00173, 01334, 01626, 02418
Sigmatek	02418
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SKY Brazil	00887
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SKY Italia	00853, 01693, 01850
SKY New Zealand	02211
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Sky+	01175, 01662
Skymaster	01334, 01409, 01567, 01611
Skymax	01413
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SkySat	01100
Skyvision	01334
SM Electronic	01409
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SmartVision	01457
Sony	00847, 00853, 01558, 02299

Satellite Set Top Box	
Star	00887
Stream System	01300
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Sunny	01300
Sunstar	00642
Supernova	00887
Supratech	01413
Systec	01334
Sytech	02418
TBoston	01251, 02418
Teac	01251
Technical	01626
Technika	01284
TechniSat	01100, 01195
Technosat	01206
Techwood	01251, 01284, 01626
TELE System	01251, 01409, 01611
Telefonica	02527, 02761
Telestar	01100, 01195, 01251, 01334, 01626
Televes	01300, 01334
Televisa	00887
Tevion	01409
Thomson	00847, 00853, 01175, 01046, 01291, 01662
Tonna	01611
Topfield	01206
Toshiba	01284
Trevi	01251
Triax	00853, 01251, 01291, 01413, 01611, 01626, 01631
Tricolor TV	01176
True Visions	02408
Twinner	01611

Satellite Set Top Box	
UBC	00642
UEC	00879, 01356
United	01251, 01626, 02418
Unitymedia	01882
Universum	00173, 01251
Variosat	00173
VEA	02418
Vestel	01251, 01284
Viasat	01195
Vision	01626
Visiosat	01413, 01457
Vitecom	01413
Vivax	02418
Volcasat	02418
Wavelength	01413
Wharfedale	01284
Wisi	00173
Worldsat	01251
Woxter	02418
Xsat	00847, 01323
Xtreme	01300
Yakumo	01413
Yes	00887
Zehnder	01251, 01334, 01413, 01631
Zinwell	02280, 02761

Satellite Set Top Box	
@sat	01300

SAT/PVR Combination	
@sat	01300
Amstrad	01175, 01662, 01693
Atsat	01300
Bell ExpressVu	00775
British Sky Broadcasting	01175, 01662

SAT/PVR Combination	
BskyB	01175, 01662
Bush	01645
Canal Satellite	02657
Canal+	02657
CanalSat	02657
Cyfrowy Polsat	02527
Digifusion	01645
DigiQuest	01300
DirecTV	01377, 00099, 20739
Dish Network	00775
Dishpro	00775
Dream Multimedia	01237
Echostar	00775, 02527
Edision	01631
Expressvu	00775
Foxtel	01356
Humax	01176, 01427, 01675, 01808
ID Sat	01334
iNETBOX	01237
Kaon	01300
Kathrein	01561
Maximum	01334
Mediacom	01206
MegaSat	01631
Movistar	02527
Multichoice	02059, 02060
MySky	01356, 01693, 01850
NEOTION	01334
Pace	01175, 01356, 01423, 01662, 01693, 01850, 02059, 02060, 02211, 02657
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