

AV Receiver

RX-V3075 RX-V2075

Owner's Manual

Read the supplied booklet "Safety Brochure" before using the unit.

CONTENTS

Accessories	5
FEATURES	6
What you can do with the unit	6
Part names and functions Front panel Front display (indicators)	10
Rear panel	
PREPARATIONS	17
General setup procedure	
1 Connecting speakers	18
Basic speaker configuration	
Advanced speaker configuration	
Input/output jacks and cables	34
2 Connecting a TV	35
3 Connecting playback devices	41
Connecting video devices (such as BD/DVD players)	
Connecting audio devices (such as CD players)	
Connecting to the jacks on the front panel	
4 Connecting the FM/AM antennas	45
5 Connecting to a network	46
6 Connecting other devices	47
Connecting recording devices	47
Connecting a device with analog multi-channel output	
Connecting a device compatible with the trigger function	48
7 Connecting the power cable	48

8 Selecting an on-screen menu language	49
9 Optimizing the speaker settings automatically (YPAO)	50
Measuring at one listening position (single measure)	
Measuring at multiple listening positions (multi measure)	
Checking the measurement results	5
Reloading the previous YPAO adjustments	5
Error messages	5
Warning messages	6
PLAYBACK	6 1
Basic playback procedure	6
Selecting an HDMI output jack	6
Selecting the input source and favorite settings with one touch	
(SCENE)	62
Configuring scene assignments	6
Selecting setting items to be included as scene assignments	6
Selecting the sound mode	64
Enjoying stereoscopic sound fields (CINEMA DSP HD³/CINEMA DSP 3D)	6
Enjoying unprocessed playback	6
Enjoying pure high fidelity sound (Pure Direct)	6
Enjoying compressed music with enhanced sound (Compressed Music Enhancer)	6
Listening to FM/AM radio	70
Selecting a frequency for reception	7
Registering favorite radio stations (presets)	7
Operating the radio on the TV	
Playing back iPod music	73
Connecting an iPod	7
Playback of iPod content	7
Playing back music stored on a USB storage device	7
Connecting a USB storage device	7
Playback of USB storage device contents	7

Playing back music stored on media servers (PCs/NAS)	80
Media sharing setup	
Playback of PC music contents	80
Listening to Internet radio	83
Playing back iTunes/iPod music via a network (AirPlay)	85
Playback of iTunes/iPod music contents	85
Playing back videos/audio in multiple rooms (multi-zone) .	
Multi-zone configuration examples	
Preparing the multi zone system	
Controlling Zone2, Zone3 or Zone4	
Viewing the current status	
Switching information on the front display	
Viewing the status information on the TV	94
Configuring playback settings for different playback source	es
(Option menu)	95
Option menu items	95
CONFIGURATIONS	99
Configuring input sources (Input menu)	99
Input menu items	99
Configuring the SCENE function (Scene menu)	101
Scene menu items	
Configuring sound programs/surround decoders (Sound	
Program menu)	104
Sound Program menu items	
Configuring various functions (Setup menu)	
Setup menu items	
Speaker (Manual Setup)	
Sound	
Video	
HDMI	
Network	
Multi Zone	122
Function	124

ECO	127
Language	127
Viewing information about the unit (Information men	ıu)128
Types of information	
Configuring the system settings (ADVANCED SETUP n	nenu)129
ADVANCED SETUP menu items	
Changing the speaker impedance setting (SPEAKER IMP.)	130
Turning on/off the remote control sensor (REMOTE SENSOR)	130
Selecting the remote control ID (REMOTE CON AMP)	130
Switching the video signal type (TV FORMAT)	131
Removing the limitation on HDMI video output (MONITOR CHECK)	131
Backing up/recovering the settings (RECOV./BACKUP)	131
Restoring the default settings (INITIALIZE)	131
Updating the firmware (FIRM UPDATE)	
Checking the firmware version (VERSION)	132
Controlling external devices with the remote control	133
Registering remote control codes	133
Programming from other remote controls (learning)	135
Editing device names	136
Operating multiple functions at once (macro)	137
Resetting the remote control configurations	139
Updating the unit's firmware via the network	141
APPENDIX	142
Frequently asked questions	142
Troubleshooting	143
Power, system and remote control	
Audio	
Video	147
FM/AM radio	148
USB and network	149
Error indications on the front display	150
Glossary	
Audio information	
HDMI and video information	

Yamaha technologies	153
Video signal flow	154
Multi-zone output	
Information on HDMI	156
HDMI Control	156
HDMI signal compatibility	157
Reference diagram (rear panel)	158
Trademarks	159
Specifications	160
Index	163

Accessories

Check that the following accessories are supplied with the product.

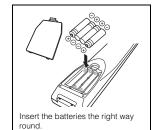
☐ Remote control

☐ Batteries (x4)





*RX-V3075: AAA, LR03, UM-4 RX-V2075: AAA, R03, UM-4



☐ AM antenna

☐ FM antenna







*One of the above is supplied depending on the region of purchase.

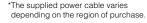
☐ YPAO microphone

☐ Microphone base (RX-V3075 only)



*Using for angle measurement during YPAO.

\square Power cable



☐ CD-ROM (Owner's Manual)

$\hfill\square$ Easy Setup Guide



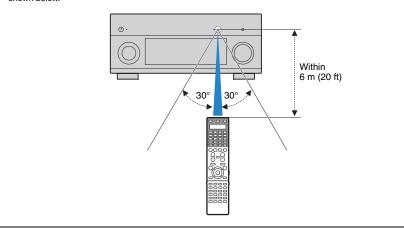






Operating range of the remote control

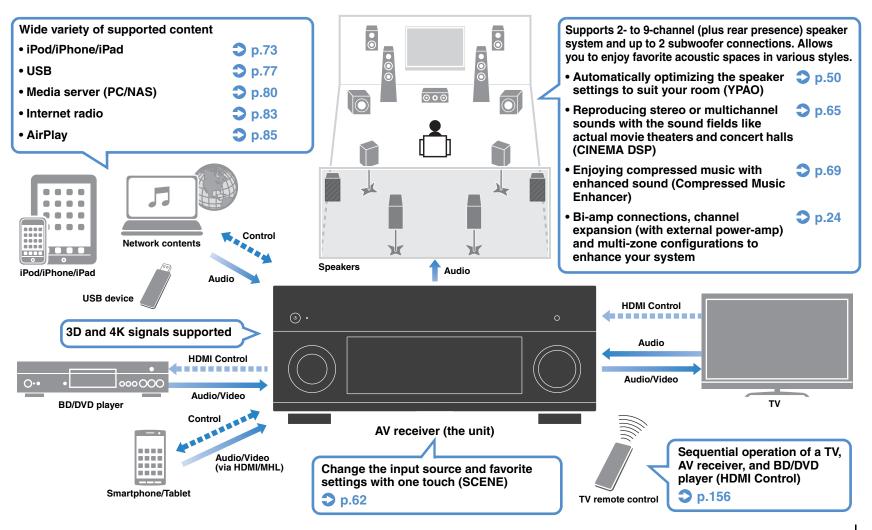
 Point the remote control at the remote control sensor on the unit and remain within the operating range shown below.



- The illustrations of the main unit and remote control used in this manual are of the RX-V3075, unless otherwise specified.
- · Some features are not available in certain regions.
- Due to product improvements, specifications and appearance are subject to change without notice.
- This manual explains operations using the supplied remote control.
- This manual describes all the "iPod", "iPhone" and "iPad" as the "iPod". "iPod" refers to "iPod", "iPhone" and "iPad", unless otherwise specified.
- I indicates precautions for use of the unit and its feature limitations.
- indicates supplementary explanations for better use.

FEATURES

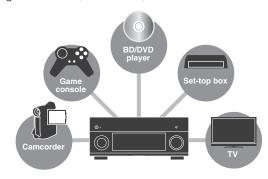
What you can do with the unit



Full of useful functions!

☐ Connecting various devices (p.41)

A number of HDMI jacks and various input/output jacks on the unit allow you to connect video devices (such as BD/DVD players), audio devices (such as CD players), game consoles, camcorders, and other devices.



☐ Playing back TV audio in surround sound with a single HDMI cable connection (Audio Return Channel: ARC) (p.35)

When using an ARC-compatible TV, you only need one HDMI cable to enable video output to the TV. audio input from the TV, and the transmission of HDMI Control signals.



☐ Easy operation and wireless music playback from iPhone or Android device

By using the application for smartphone/tablet "AV CONTROLLER", you can control the unit from an iPhone, iPad, iPod touch or Android devices. Visit the Yamaha website for details.

☐ Listening to FM/AM radio (p.70)

The unit is equipped with a built-in FM/AM tuner. You can register up to 40 favorite radio stations as presets.

☐ Enjoying pure high fidelity sound (p.69)

When the Pure Direct mode is enabled, the unit plays back the selected source with the least circuitry, which lets you to enjoy Hi-Fi sound quality.

☐ Easy operation with a TV screen

You can navigate through different types of content (such as iPod, USB, and network), view information, or easily configure the settings using the on-screen menu.

☐ Low power consumption

The ECO mode (power saving function) reduces the unit's power consumption (p.127).

Operating external devices with the supplied remote control

You can operate external devices with the supplied remote control by registering the remote control codes of the external devices (such as a TV and BD/DVD players) (p.133).

□ Backlight illumination remote control

RX-V3075

The backlight illumination allows you to easily operate the remote control even in a dark home theater room

Useful tips

I want to connect a playback device using HDMI for video and non-HDMI for audio...

Use "Audio Select" in the "Option" menu to specify the type of an audio input jack to be used for the corresponding input source (p.98).

Video and audio are not synchronized...

Use "Lipsync" in the "Setup" menu to adjust the delay between video and audio output (p.115).

I want to hear audio from the TV speakers...

Use "Audio Output" in the "Setup" menu to select the output destination of signals input into the unit (p.119). Your TV speakers may be selected as an output destination.

I want to change the on-screen menu language...

Use "Language" in the "Setup" menu to select a language from English, Japanese, French, German, Spanish, Russian, Italian and Chinese (p.49).

I want to update the firmware...

Use "FIRM UPDATE" in the "ADVANCED SETUP" menu to update the unit's firmware (p.132). If the unit is connected to the Internet, a message will be displayed on the TV when a firmware update is available (p. 141).

Many other settings are available that let you to customize the unit. For details, see the following pages.

- Input settings (p.99)
- SCENE settings (p.102)
- Sound program and surround decoder settings (p.105)
- Various function settings (p.108)
- Information view (such as audio signal and video signal) (p.128)
- System settings (p.130)

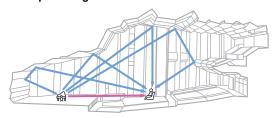
CINEMA DSP

The excitement of a concert hall and the powerful sense of being inside a movie - we all want to enjoy these experiences in our own living room. Yamaha has pursued the fulfillment of these desires for more than 20 years, and this fulfillment has now taken shape as the Yamaha AV receivers.

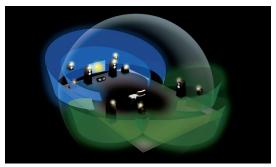
What is a sound field?

We perceive sound from a voice or an instrument not only as the sounds that are heard directly but also as the "reflected" or "reverberant" sound that has been reflected by the walls or ceiling of the building. The character of the reflected and reverberant sound is affected by the shape, size, and material of the building, and all of these sounds taken together are what give us the auditory sensation of being in that specific place. This unique acoustical character of a specific space is what we call the "sound field".

Conceptual diagram of a concert hall's sound field



Conceptual diagram of a sound field created by the unit



CINEMA DSP/CINEMA DSP 3D

Yamaha has accumulated a massive amount of acoustical data by analyzing the actual sound fields of concert halls and performance spaces around the world. "CINEMA DSP" allows this data to be applied to create sound fields. This unit contains a wide variety of sound programs using CINEMA DSP.

By selecting a sound program that is appropriate to the content of the playback source such as movies, music, or games, you can maximize the acoustical effectiveness of that specific content. (For example, a sound program designed for movies can give you the sensation of actually being in that scene.)

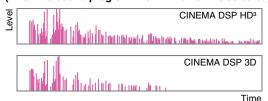
In addition, the "CINEMA DSP 3D" function uses 3-dimensional sound field data that includes the axis of height, generating an even more realistic sound field with a spatial sense.

CINEMA DSP HD³

RX-V3075

"CINEMA DSP HD3" is Yamaha's flagship 3D sound field playback technology that takes full advantage of the massive amount of acoustic reflection data included in the sound field data. With support for rear presence speaker output, it delivers more than twice as much capability for generating acoustic reflections as conventional CINEMA DSP 3D, in addition to high-frequency playback capability, delivering an utterly natural and powerful spatial sound field.

Capability for reproducing reflections (when the sound program "Hall in Munich" is selected)

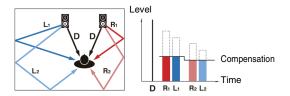


Optimizing speaker settings for the environment (YPAO)

The included YPAO microphone can be used to analyze the environment so that this information can be used to automatically adjust various settings for the speakers and the sound field. This allows the distinctive character of the content you are hearing to be maximized, and optimizes the effectiveness of Yamaha's sound field generating technology for your specific listening environment.

YPAO-R.S.C.

In rooms that have not been designed or constructed with acoustics in mind, reflections from the walls or ceiling can cause problems such as a blurred low-frequency range or a smearing of the acoustical image. "YPAO-R.S.C." is technology that reduces only the unwanted reflections that can be difficult to avoid in a typical home. This corrects the tonal changes and inconsistencies in the sound field that can occur due to speaker placement, thus creating a listening environment comparable to that of a room specifically designed for acoustic perfection.



Angle measurement

RX-V3075

The direction (angle) of the front speakers, surround speakers, and presence speakers as seen from the listening position is measured, and compensation is applied to the sound field in order to maximize the



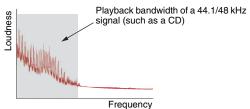
effectiveness of the CINEMA DSP sound field

Unrivaled audio and video quality

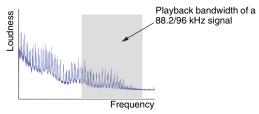
High-resolution music enhancer

Hi-bit high-sampling extension up to 96 kHz / 24-bit can be applied to lossless 44.1/48 kHz content such as from a CD (2-channel PCM) or a FLAC file for further heightening of the musicality in the original content (p.97)

Before processing



After processing



High-quality video processing

From low-quality digital video to BD (Blu-ray disc) images, any content can be played back as a high-quality image (p.117).

- Motion adaptive and edge adaptive deinterlacing
- Multi-cadence (including 3-2 pull-down) detection
- Up to 6 presets that can be applied separately to each input source

You can also apply fine touches such as detail enhancement and edge enhancement.

Expandable to meet diverse needs

Support for bi-amp connections and external power amp expansion

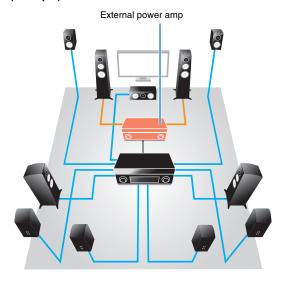
To obtain even high audio quality, you can connect front speakers that support power amp expansion, or expand your system by adding an external power amp (such as a Hi-Fi amp).

For details, refer to "Advanced speaker configuration"

The best expandability in Yamaha

RX-V3075 By connecting an external power amp, you can enjoy the highest peak of CINEMA DSP - an 11.2-channel 3-dimensional sound field.

(Example)



Multi-zone function

The multi-zone function (p.87) allows you to play back different input sources in the room where the unit is installed (main zone) and in other rooms (such as Zone2). (The following shows examples of use.)

Enjoying music using speakers in another room

While enjoying multi-channel playback in your living room, you can listen to music through the speakers of a different room.





(such as Zone2)

Living room (main zone)

Enjoying videos using a TV in another room (HDMI connection)

While enjoying multi-channel playback in your living room, you can enjoy videos and music being input via HDMI on a TV in a different room.

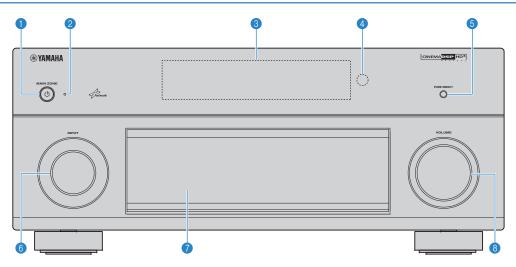




Living room (main zone)

Part names and functions

Front panel



● MAIN ZONE ① key

Turns on/off (standby) the unit.

Standby indicator

Lights up when the unit is in standby mode under any of the following conditions.

- HDMI Control is enabled (p.119)
- Standby Through is enabled (p.120)
- Network Standby is enabled (p.121)
- An iPod is being charged (p.73)
- § Front display

Displays information (p.12).

4 Remote control sensor

Receives remote control signals (p.5).

5 PURE DIRECT key

Enables/disables Pure Direct (p.69).

(3) INPUT knob

Selects an input source.

Front panel door

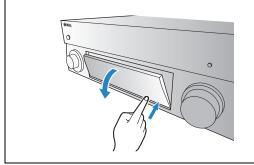
For protecting controls and jacks (p.11).

8 VOLUME knob

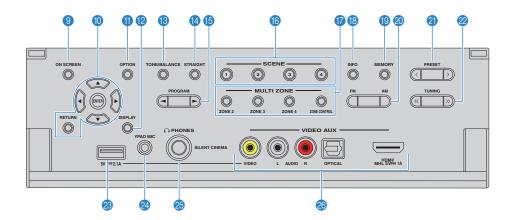
Adjusts the volume.

Opening the front panel door

 To use controls or jacks behind the front panel door, gently press the bottom of the door to open it. Keep the door closed when not using controls or jacks behind the front panel door. (Be careful not to trap your fingers.)



Inside of the front panel door



ON SCREEN key

Displays the on-screen menu on the TV.

Menu operations keys

 Cursor keys
 Select a menu or a parameter.

 ENTER
 Confirms a selected item.

 RETURN
 Returns to the previous screen.

(1) OPTION key

Displays the option menu (p.95).

DISPLAY key

Displays status information on the TV (p.94).

(B) TONE/BALANCE key

Adjusts the high-frequency range and low-frequency range of output sounds (p.96).

Adjusts the right/left channel volume balance for Zone2 or Zone3 (p.93).

STRAIGHT key

Enables/disables the straight decode mode (p.68).

(5) PROGRAM keys

Select a sound program or a surround decoder (p.64).

(B) SCENE keys

Select the registered input source, sound program, and various settings with one touch. Also, turns on the unit when it is in standby mode (p.62).

MULTI ZONE keys

ZONE 2–4 Enables/disables the audio output to

each zone (p.92).

ZONE CONTROL Changes the zone that is controlled by the keys and knobs on the front panel

(p.92)

INFO key

Selects the information displayed on the front display (p.94).

MEMORY key

Registers FM/AM radio stations as preset stations (p.71).

FM and AM keys

Switch between FM and AM (p.70).

PRESET keys

Select a preset FM/AM radio station (p.71).

TUNING keys

Select the radio frequency (p.70).

USB jack

For connecting a USB storage device (p.77) or an iPod (p.73).

2 YPAO MIC jack

For connecting the supplied YPAO microphone (p.50).

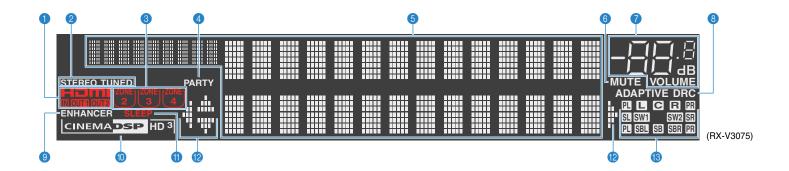
PHONES jack

For connecting headphones.

VIDEO AUX jacks

For connecting a device, such as a camcorder and a game console (p.44, 45) or a smartphone (p.44).

Front display (indicators)



1 HDMI

Lights up when HDMI signals are being input or output.

IN

Lights up when HDMI signals are being input.

OUT1/OUT2

Indicates the HDMI OUT jacks currently outputting an HDMI signal.

STEREO

Lights up when the unit is receiving a stereo FM radio signal.

TUNED

Lights up when the unit is receiving an FM/AM radio station signal.

ZONE indicators

Lights up when Zone2, Zone3 or Zone4 is enabled (p.92).

4 PARTY

Lights up when the unit is in the party mode. (p.93)

6 Information display

Displays the current status (such as input name and sound mode name). You can switch the information by pressing INFO (p.94).

MUTE

Blinks when audio is muted

Volume indicator

Indicates the current volume.

(3) ADAPTIVE DRC

Lights up when Adaptive DRC (p.96) is working.

O ENHANCER

Lights up when Compressed Music Enhancer (p.69) is working.

O CINEMA DSP indicator

(RX-V3075)

"CINEMA DSP HD" lights up when CINEMA DSP (p.65) is working. "CINEMA DSP HD3" lights up when CINEMA DSP HD3 is activated.

(RX-V2075)

"CINEMA DSP" lights up when CINEMA DSP (p.65) is working. "CINEMA DSP 3" lights up when CINEMA DSP 3D is activated.

SLEEP

Lights up when the sleep timer is on.

Cursor indicators

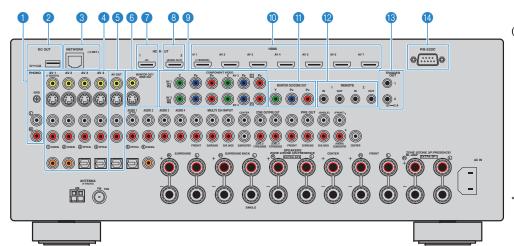
Indicate the remote control cursor keys currently operational.

Speaker indicators

Indicate speaker terminals from which signals are output.

- Front speaker (L)
- R Front speaker (R)
- C Center speaker
- SL Surround speaker (L)
- SR Surround speaker (R)
- SBL Surround back speaker (L)
- SBR Surround back speaker (R)
- SB Surround back speaker
- PL Front/rear presence speakers (L)
- PR Front/rear presence speakers (R)
- SW1 Subwoofer (1)
- SW2 Subwoofer (2)

Rear panel



(RX-V3075)

* The area around the video/audio output jacks is marked in white on the actual product to prevent improper connections.

1 PHONO jacks

For connecting to a turntable (p.43).

ODC OUT jack

For connecting to an optional accessory.

8 NETWORK jack

For connecting to a network (p.46).

AV 1-4 jacks

For connecting to video/audio playback devices and inputting video/audio signals (p.41).

6 AV OUT jacks

For outputting video/audio to a recording device (such as a VCR) (p.47).

6 MONITOR OUT/ZONE OUT (composite video/S-video) jacks

For connecting to a TV that supports composite video or S-video and outputting video signals (p.39) or for connecting to a zone video monitor used in Zone2 or Zone3 (p.89).

HDMI OUT 1 jack

For connecting to an HDMI-compatible TV and outputting video/audio signals (p.35). When using ARC, TV audio signal can also be input through the HDMI OUT 1 jack.

HDMI OUT 2 (ZONE OUT) jack

For connecting to an HDMI-compatible TV and outputting video/audio signals (p.40), or for connecting to an HDMI-compatible device used in Zone2 or Zone4 (p.90).

(9) COMPONENT VIDEO (AV 1-4) jacks

For connecting to video playback devices that support component video and inputting video signals (p.41).

HDMI (AV 1-7) jacks

For connecting to HDMI-compatible playback devices and inputting video/audio signals (p.41).

MONITOR OUT/ZONE OUT (component video) jacks

For connecting to a TV that supports component video and outputting video signals (p.39) or for connecting to a zone video monitor used in Zone2 or Zone3 (p.89).

REMOTE IN/OUT 1–2 jacks

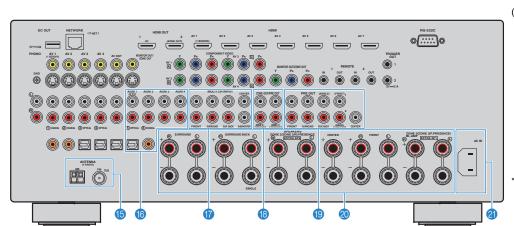
For connecting to an infrared signal receiver/emitter that allows you to operate the unit and other devices from another room (p.91).

(B) TRIGGER OUT 1-2 jacks

For connecting to devices that support the trigger function (p.48).

RS-232C terminal

This is a control expansion terminal for custom installation. Consult your dealer for details.



(RX-V3075)

* The area around the video/audio output jacks is marked in white on the actual product to prevent improper connections.

(6) ANTENNA jacks

For connecting to FM and AM antennas (p.45).

(6) AUDIO 1-4 jacks

For connecting to audio playback devices and inputting audio signals (p.43).

MULTI CH INPUT jacks

For connecting to a device that supports multi-channel output and inputting audio signals (p.47).

(8) ZONE OUT/PRE OUT jacks (RX-V3075)

For connecting to an external amplifier used in Zone2 or Zone3 and outputting audio (p.88), or for connecting to an external power amplifier for front presence or rear presence channels (p.33).

ZONE OUT jacks (RX-V2075)

For connecting to an external amplifier used in Zone2 or Zone3 and outputting audio (p.88).

PRE OUT jacks

For connecting to a subwoofer with built-in amplifier (p.22) or to an external power amplifier (p.33).

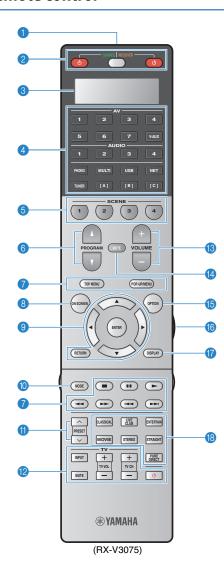
SPEAKERS terminals

For connecting to speakers (p.18).

AC IN jack

For connecting the supplied power cable (p.48).

Remote control



Remote control signal transmitter

Transmits infrared signals.

2 SOURCE (key

Turns on/off an external device.

SOURCE/RECEIVER key

Changes the device (the unit or external device) that is operated with the remote control (p.135). You can operate the unit when this key lights up in orange, and an external device when this key lights up in green.

RECEIVER () key

Turns on/off (standby) the unit.

Oisplay window

Displays remote control information.

Input selection keys

Select an input source for playback.

AV 1-7 AV 1-7 jacks

V-AUX VIDEO AUX jacks (on the front panel)

AUDIO 1–4 AUDIO 1–4 jacks **PHONO** PHONO jacks

MULTI CH INPUT jacks
USB jack (on the front panel)

NET NETWORK jack (press repeatedly to select a

desired network source)

TUNER FM/AM radio

[A], [B], [C] Change the external device to operate with the remote control without switching the input

ource.

6 SCENE keys

Select the registered input source, sound program, and various settings with one touch. Also, turns on the unit when it is in standby mode (p.62).

6 PROGRAM keys

Select a sound program (p.64).

External device operation keys

Let you play back and perform other operations for external devices (p.135).

3 ON SCREEN key

Displays the on-screen menu on the TV.

Menu operation keys

Cursor keys
ENTER
Confirms a selected item.
RETURN
Returns to the previous screen.

MODE key

Switches the iPod operation modes (p.75).

PRESET keys

Select a preset FM/AM radio station (p.71).

12 TV operation keys

Let you select TV input and volume, and perform other TV operations (p.134).

(B) VOLUME keys

Adjust the volume.

MUTE key

Mutes the audio output.

(B) OPTION key

Displays the option menu (p.95).

(B) LIGHT key (RX-V3075 only)

Turns on the backlight of the remote control keys for about 10 seconds.

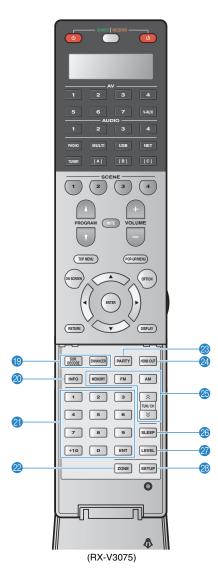
17 DISPLAY key

Displays status information on the TV (p.94).

Sound mode keys

Select a sound mode (p.64).

Inside of the remote control cover



Sound mode keys

Select a sound mode (p.64).

INFO key

Selects the information displayed on the front display (p.94).

Numeric keys

Let you enter numerical values, such as radio frequencies.

ZONE key

Changes the zone that is controlled by the remote control (p.92).

PARTY key

Turns on/off the party mode (p.93).

4 HDMI OUT key

Selects HDMI OUT jacks to be used for video/audio output (p.61).

Radio keys

Operate the FM/AM radio (p.70).

MEMORY Registers FM/AM radio stations as presets.

FM Switches to FM radio.

AM Switches to AM radio.

TUN./CH Select the radio frequency.

SLEEP key

Switches the unit to standby mode automatically after a specified period of time has elapsed (sleep timer). Press repeatedly to set the time (120 min, 90 min, 60 min, 30 min, off).

② LEVEL key

Adjusts the volume of each speaker (p.114).

SETUP key

Switches the remote control to the setup mode (p.133).



• To operate external devices with the remote control, register a remote control code for each device before using (p.133).

PREPARATIONS

General setup procedure

1 Connecting speakers (p.18)	Basic speaker configuration (p.19) Select the speaker layout and connect the speakers to the unit. Advanced speaker configuration (p.24) Apply bi-amp connections, channel expansion (using an external power amplifier) or multi-zone configurations to enhance the system.
2 Connecting a TV (p.35)	Connect a TV to the unit.
3 Connecting playback devices (p.41)	Connect video devices (such as BD/DVD players) and audio devices (such as CD players) to the unit.
4 Connecting the FM/AM antennas (p.45)	Connect the supplied FM/AM antennas to the unit.
5 Connecting to a network (p.46)	Connect the unit to a network.
6 Connecting other devices (p.47)	Connect external devices such as recording devices.
7 Connecting the power cable (p.48)	After all the connections are complete, plug in the power cable.
Selecting an on-screen menu language (p.49)	Select the desired on-screen menu language.
Optimizing the speaker settings automatically (YPAO) (p.50)	Optimize the speaker settings, such as volume balance and acoustic parameters, to suit your room (YPAO).

This completes all the preparations. Enjoy playing movies, music, radio and other content with the unit!

1 Connecting speakers

The unit has 9 built-in amplifiers. You can connect 2 to 11 speakers and up to 2 subwoofers to create the favorite acoustic space in your room. You can also apply bi-amp connections, channel expansion (using an external power amplifier) or multi-zone configurations to enhance your system (p.24).

Caution

• Under its default settings, the unit is configured for 8-ohm speakers. When connecting 6-ohm speakers, set the unit's speaker impedance to "6 Ω MIN". In this case, you can also use 4-ohm speakers as the front speakers. For details, see "Setting the speaker impedance" (p.21).

Functions of each speaker

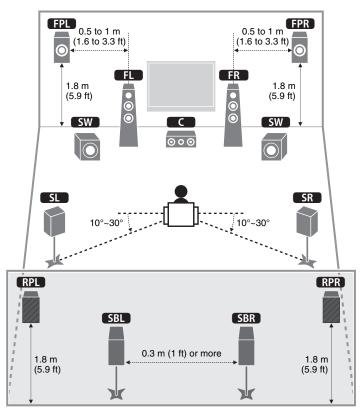
	•			
Speaker type	Abbr.	Function		
Front (L)	FL	Produce front right/left channel sounds (stereo sounds).		
Front (R)	FR	Troduce nont rightplett channel sounds (steleo sounds).		
Center		Produces center channel sounds (such as movie dialogues and vocals).		
Surround (L)	SL	Produce surround right/left channel sounds. Surround speakers		
Surround (R)	SR	also produce surround back channel sounds when no surround back speakers are connected.		
Surround back (L)	SBL	Produce surround back right/left channel sounds.		
Surround back (R)	SBR	rroduce surround back right/left charmer sounds.		
Front presence (L)	FPL	Produce CINEMA DSP effect sounds. In combination with CINEMA		
Front presence (R)	FPR	DSP HD ³ (RX-V3075) or CINEMA DSP 3D (RX-V2075) (p.65), the		
Rear presence (L)	RPL	presence speakers create a natural 3-dimensional sound field in your room.		
Rear presence (R)	RPR	your room.		
Subwoofer	SW	Produces LFE (low-frequency effect) channel sounds and reinforces bass parts of other channels. This channel is counted as "0.1". You can connect 2 subwoofers to the unit and place them on the right/left (or front/rear) sides of the room.		



- Use "Ideal speaker layout" (diagram on the right) as reference. You do not need to exactly adjust the speaker layout to this diagram since the YPAO function of the unit will automatically optimize the speaker settings (such as distances) to suit the speaker layout.
- When using only one surround back speaker, place it straight behind the listening position (middle of "SBL" and "SBR" in the diagram).
- The unit creates front Virtual Presence Speaker (VPS) using the front, center, and surround speakers to
 produce 3-dimensional sound fields even when no front presence speakers are connected. However, we
 recommend using front presence speakers in order to experience the full effect of the sound fields (and
 rear presence speakers for further spatial sounds).
- (RX-V3075 only)

The unit creates rear Virtual Presence Speaker (VPS) using the front, center, and surround speakers to produce natural 3-dimensional sound fields when front presence speakers are connected but no rear presence speakers.

Ideal speaker layout

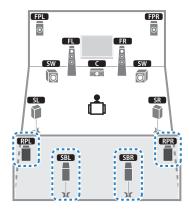


Basic speaker configuration

Placing speakers in your room

Depending on the number of speakers, place the speakers and subwoofer in your room. This section describes the representative speaker layout examples.

□ 9.2+2-channel system (using both surround back and rear presence speakers)

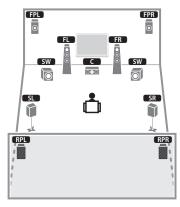


This speaker system brings out the full performance of the unit and allows you to enjoy a highly-natural 3-dimensional sound field with any contents.



- The surround back speakers and rear presence speakers do not produce sounds simultaneously. The unit
 automatically changes the speakers to be used, depending on the selected sound program (p.65).
- (RX-V3075 only)
- You can make an 11-channel system by using an external power amplifier (p.25).

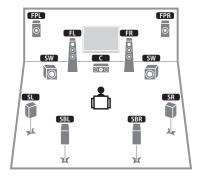
☐ 9.2-channel system (using rear presence speakers)



This speaker system uses the front and rear presence speakers to produce a highly-natural 3-dimensional sound field, and is suited for enjoying 5.1-channel contents.

1 Speaker connections 2 3 4

☐ 9.2-channel system (using surround back speakers)



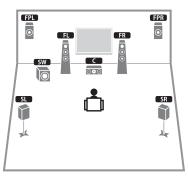
This speaker system uses the front presence speakers to produce a natural 3-dimensional sound field, and also allows you to enjoy extended surround sounds using the surround back speakers.



(RX-V3075 only)

This speaker system creates rear Virtual Presence Speaker (VPS) using the front, center and surround speakers to produce a natural 3-dimensional sound field.

☐ 7.1-channel system (using front presence speakers)



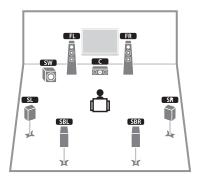
This speaker system uses the front presence speakers to produce a natural 3-dimensional sound field, and is suited for enjoying 5.1-channel contents.



• (RX-V3075 only)

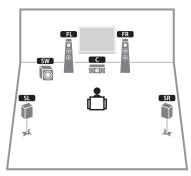
This speaker system creates rear Virtual Presence Speaker (VPS) using the front, center and surround speakers to produce a natural 3-dimensional sound field.

☐ 7.1-channel system (using surround back speakers)



This speaker system creates front Virtual Presence Speaker (VPS) using the front, center and surround speakers to produce a 3-dimensional sound field, and also allows you to enjoy extended surround sounds using the surround back speakers.

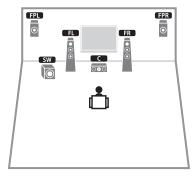
☐ 5.1-channel system



This speaker system creates front Virtual Presence Speaker (VPS) using the front, center and surround speakers to produce a 3-dimensional sound field, and is suited for enjoying 5.1-channel contents.

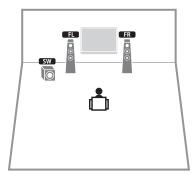


☐ Front 5.1-channel system



This speaker system uses the front presence speakers to produce a natural 3-dimensional sound field, and creates the virtual surround speakers using the front speakers to allow you to enjoy multi-channel surround sound (Virtual CINEMA DSP).

☐ 2.1-channel system



Even when no surround speakers are connected, the unit creates the virtual surround speakers using the front speakers to allow you to enjoy multi-channel surround sound (Virtual CINEMA DSP).

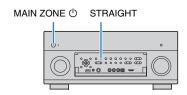


· Add the center speaker to configure a 3.1-channel system.

Setting the speaker impedance

Under its default settings, the unit is configured for 8-ohm speakers. When connecting 6-ohm speakers, set the speaker impedance to "6 Ω MIN". In this case, you can also use 4-ohm speakers as the front speakers.

- Before connecting speakers, connect the power cable to an AC wall outlet.
- 2 While holding down STRAIGHT on the front panel, press MAIN ZONE 也.



3 Check that "SPEAKER IMP." is displayed on the front display.



- 4 Press STRAIGHT to select "6 Ω MIN".
- 5 Press MAIN ZONE () to set the unit to standby mode and remove the power cable from the AC wall outlet.

You are now ready to connect the speakers.

Connecting speakers

Connect the speakers placed in your room to the unit.

Caution

- Remove the unit's power cable from an AC wall outlet and turn off the subwoofer before connecting the speakers.
- Ensure that the core wires of the speaker cable do not touch one another or come into contact with the unit's metal parts. Doing so may damage the unit or the speakers. If the speaker cables short circuit, "Check SP Wires" will appear on the front display when the unit is turned on.

Speakers to be connected

Room	Speaker type	Abbr.	(ti		aker sy ber of o	stem channel	s)	Power Amp Assign
			9+2	9	7	5	2	(p.111)
	Front (L)		•	•	•	•	•	
	Front (R)	FR	•	•	•	•	•	
	Center		•	•	•	•		
	Surround (L)	SL	•	•	•	O*5		
	Surround (R)	SR	•	•	•	O*5		
Main zone	Surround back (L)	SBL	•	O*1	O*3			Basic (default)
	Surround back (R)	SBR	•	O*1	O*3			
	Front presence (L)	FPL	•	•	O*4	O*6		
	Front presence (R)	FPR	•	•	O*4	O*6		
	Rear presence (L)	RPL	•	O*2				
	Rear presence (R)	RPR	•	O*2				

If you have nine speakers, use two of them as surround back speakers (*1) or rear presence speakers (*2). If you have seven speakers, use two of them as surround back speakers (*3) or front presence speakers (*4). If you have five speakers, use two of them as surround speakers (*5) or front presence speakers (*6).



- You can also connect up to 2 subwoofers (with built-in amplifier) to the unit. When using 2 subwoofers, configure the "SWFR Layout" setting (p.113) in the "Setup" menu after connecting the power cable to an AC wall outlet.
- To use an external power amplifier (Hi-Fi amplifier, etc.) to enhance speaker output, see "Connecting an external power amplifier" (p.33).

Cables necessary for connection (commercially available)

Speaker cables (x the number of speakers)

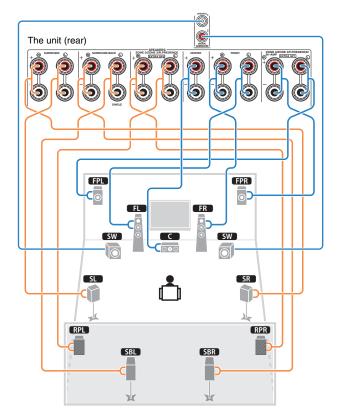


Audio pin cable (two for connecting two subwoofers)



Connection diagram

Refer to the following diagram and connect the speakers to the unit.



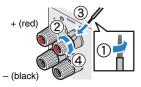


• When using only one surround back speaker, connect it to the SINGLE jack (L side).

□ Connecting speaker cables

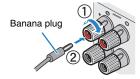
Speaker cables have two wires. One is for connecting the negative (-) terminal of the unit and the speaker, and the other is for the positive (+) terminal. If the wires are colored to prevent confusion, connect the black wire to the negative and the other wire to the positive terminal.

- ① Remove approximately 10 mm (3/8") of insulation from the ends of the speaker cable, and twist the bare wires of the cable firmly together.
- 2 Loosen the speaker terminal.
- ③ Insert the bare wires of the cable into the gap on the side (upper right or bottom left) of the terminal.
- 4 Tighten the terminal.



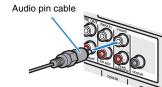
Using a banana plug

- $\ensuremath{\textcircled{1}}$ Tighten the speaker terminal.
- ② Insert a banana plug into the end of the terminal.



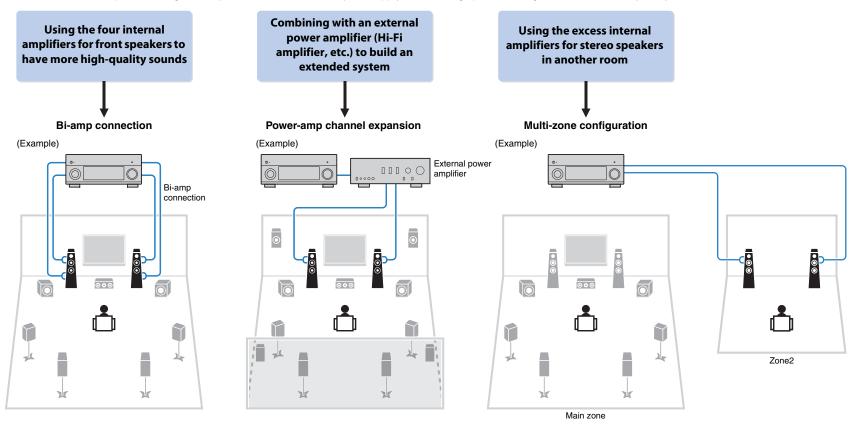
☐ Connecting the subwoofer (with built-in amplifier)

Use an audio pin cable to connect the subwoofer.



Advanced speaker configuration

In addition to the basic speaker configuration (p.19), the unit also allows you to apply the following speaker configurations to enhance your system.



Available speaker configurations

(RX-V3075)

		Main zone				
Speaker configuration	Output channel (max)	Bi-amp	External power amplifier (required)	Multi-zone	Power Amp Assign (p.111)	Page
Using a bi-amp connection in the main zone	7	0			7ch BI-AMP	26
Using a bi-amp connection in the main zone and multi-zone speakers	7	0		+1 room	7ch BI-AMP +1ZONE	26
Using a bi-amp connection in the main zone and power-amp channel expansion (for presence channels)	11	0	Front presence Rear presence		7ch BI-AMP +FP+RP	27
	11		Rear Presence		9ch +RP	27
Using power-amp channel expansion (for front and/or presence	11		Front		9ch +FRONT	28
channels)	11		Front presence Rear presence		7ch +FP+RP	28
Using power-amp channel expansion (for front channels) and	9		Front	+1 room	7ch +FRONT+1ZONE	29
multi-zone speakers	7		Front	+2 rooms	5ch +FRONT+2ZONE	29
	7			+1 room	7ch +1ZONE	30
Using multi-zone speakers	9			+1 room	9ch +1ZONE	30
	7			+2 rooms	7ch +2ZONE	31

(RX-V2075)

		Main zone			Power Amp Assign (p.111)	Page
Speaker configuration	Output channel (max)	Bi-amp	External power amplifier (required)	Multi-zone		
Using a bi-amp connection in the main zone	7	0			7ch BI-AMP	26
Using a bi-amp connection in the main zone and multi-zone speakers	7	0		+1 room	7ch BI-AMP +1ZONE	26
Using power-amp channel expansion (for front channels) and	9		Front	+1 room	7ch +FRONT+1ZONE	29
multi-zone speakers	7		Front	+2 rooms	5ch +FRONT+2ZONE	29
	7			+1 room	7ch +1ZONE	30
Using multi-zone speakers	9			+1 room	9ch +1ZONE	30
	7			+2 rooms	7ch +2ZONE	31

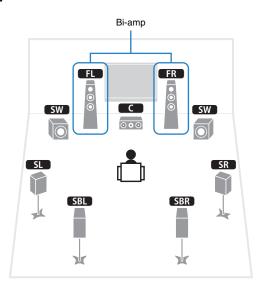


- When applying one of these configurations, you need to configure the "Power Amp Assign" setting (p.111) in the "Setup" menu.
- When applying a multi-zone configuration, you can select a zone (Zone2 or Zone3) to be assigned to the EXTRA SP 1–2 jacks in "Power Amp Assign" (p.111) in the "Setup" menu. By default, Zone2 is assigned to the EXTRA SP 1 jacks and Zone3 is assigned to the EXTRA SP 2 jacks. The following explanation is based on the assumption that you have not changed the default zone assignments.

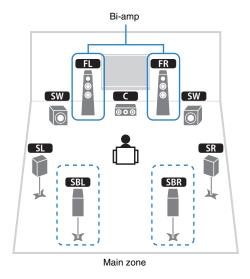
☐ 7ch BI-AMP

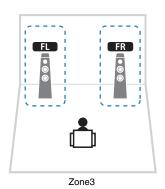
RPL RPR

SW



☐ 7ch BI-AMP +1ZONE





Speaker Connect to FL FR FRONT and EXTRA SP 1 (bi-amp connection) CENTER SL SR SURROUND SBL SBR SURROUND BACK FPL FPR (not used)

(not used)

SUBWOOFER 1-2

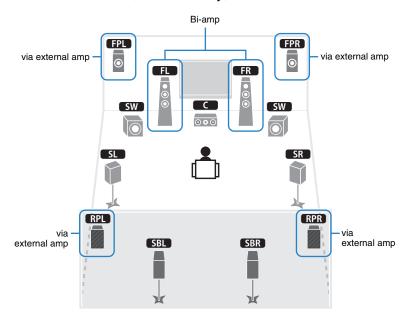
Speaker	Connect to
FL FR	FRONT and EXTRA SP 1 (bi-amp connection)
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	(not used)
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone3 speakers	EXTRA SP 2



• When Zone3 output is enabled (p.92), the surround back speakers in the main zone do not output sound.

1 Speaker connections 2 3 4 5

☐ 7ch BI-AMP +FP+RP (RX-V3075 only)

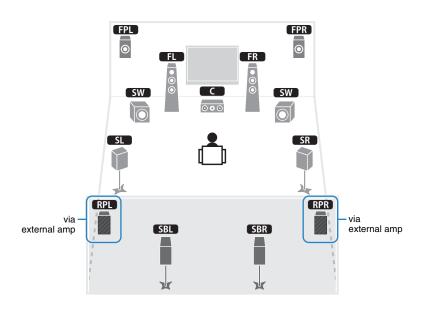


Speaker	Connect to
FL FR	FRONT and EXTRA SP 1 (bi-amp connection)
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	F.PRESENCE (PRE OUT) via external power amplifier
RPL RPR	R.PRESENCE (PRE OUT) via external power amplifier
SW	SUBWOOFER 1–2



When this configuration is applied, you cannot utilize the ZONE OUT/PRE OUT jacks for connecting external amplifiers for Zone2 and Zone3 (p.88).

□ 9ch +RP (RX-V3075 only)

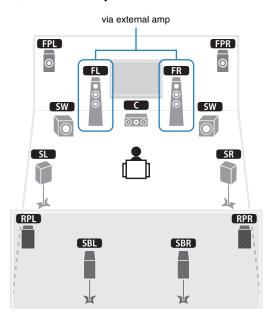


Speaker	Connect to
FL FR	FRONT
	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	EXTRA SP 1
RPL RPR	R.PRESENCE (PRE OUT) via external power amplifier
SW	SUBWOOFER 1–2



• When this configuration is applied, you cannot utilize the ZONE OUT/PRE OUT jacks for connecting an external amplifier for Zone3 (p.88).

☐ 9ch +FRONT (RX-V3075 only)

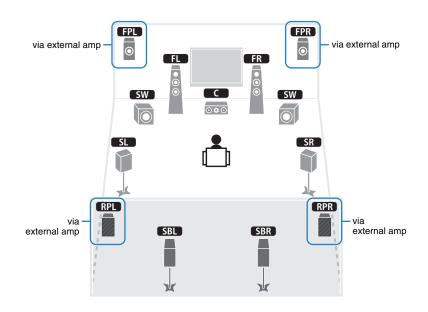


Speaker	Connect to
FL FR	FRONT (PRE OUT) via external power amplifier
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	EXTRA SP 1
RPL RPR	EXTRA SP 2
SW	SUBWOOFER 1–2



 When this configuration is applied, you cannot utilize the ZONE OUT/PRE OUT jacks for connecting an external amplifier for Zone3 (p.88).

☐ 7ch +FP+RP (RX-V3075 only)

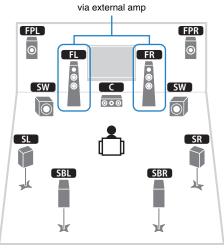


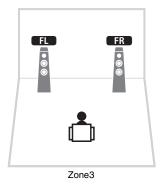
Speaker	Connect to
FL FR	FRONT
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	F.PRESENCE (PRE OUT) via external power amplifier
RPL RPR	R.PRESENCE (PRE OUT) via external power amplifier
SW	SUBWOOFER 1–2



 When this configuration is applied, you cannot utilize the ZONE OUT/PRE OUT jacks for connecting external amplifiers for Zone2 and Zone3 (p.88).

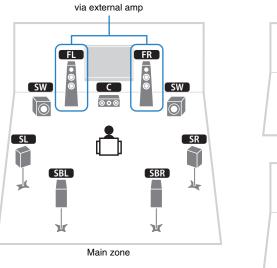
☐ 7ch +FRONT+1ZONE

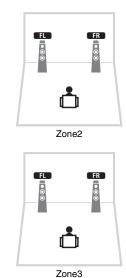




Main zone

☐ 5ch +FRONT+2ZONE



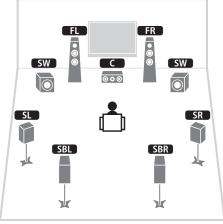


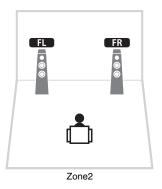
Speaker	Connect to
FL FR	FRONT (PRE OUT) via external power amplifier
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	EXTRA SP 1
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone3 speakers	EXTRA SP 2

Speaker	Connect to
FL FR	FRONT (PRE OUT) via external power amplifier
	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	(not used)
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone2 speakers	EXTRA SP 1
Zone3 speakers	EXTRA SP 2

1 Speaker connections 2 3 4 5

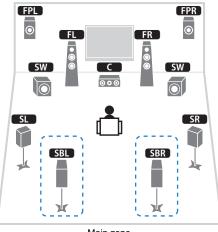
☐ 7ch +1ZONE

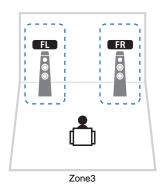




Main zone

☐ 9ch +1ZONE





Main zone

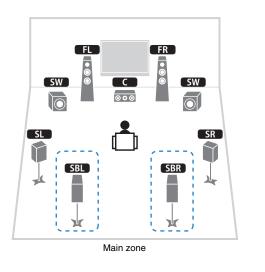
Speaker	Connect to
FL FR	FRONT
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	(not used)
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone2 speakers	EXTRA SP 1

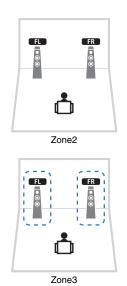
Speaker	Connect to
FL FR	FRONT
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	EXTRA SP 1
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone3 speakers	EXTRA SP 2



[•] When Zone3 output is enabled (p.92), the surround back speakers in the main zone do not output sound.

☐ 7ch +2ZONE





Speaker	Connect to
FL FR	FRONT
C	CENTER
SL SR	SURROUND
SBL SBR	SURROUND BACK
FPL FPR	(not used)
RPL RPR	(not used)
SW	SUBWOOFER 1–2
Zone2 speakers	EXTRA SP 1
Zone3 speakers	EXTRA SP 2



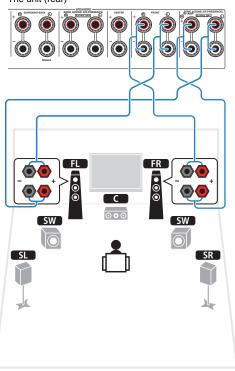
• When Zone3 output is enabled (p.92), the surround back speakers in the main zone do not output sound.

Connecting front speakers that support bi-amp connections

When using front speakers that support bi-amp connections, connect them to the FRONT terminals and EXTRA SP 1 terminals.

To enable the bi-amp function, configure the "Power Amp Assign" setting (p.111) in the "Setup" menu after connecting the power cable to an AC wall outlet.

The unit (rear)





• The FRONT terminals and EXTRA SP 1 terminals output the same signals.

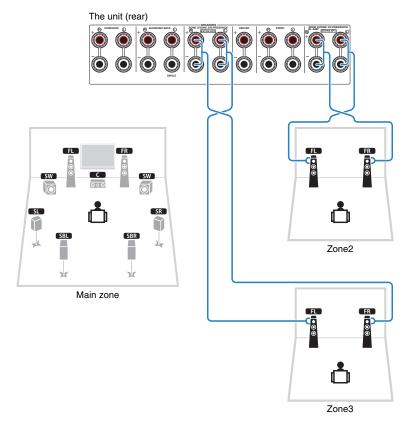
Caution

Before making bi-amp connections, remove any brackets or cables that connect a woofer with a
tweeter. Refer to the instruction manual of the speakers for details. If you are not making bi-amp
connections, make sure that the brackets or cables are connected before connecting the speaker
cables.

■ Connecting Zone2/3 speakers

When using Zone2/3 speakers, connect them to the EXTRA SP 1-2 terminals.

To utilize the EXTRA SP 1–2 terminals for Zone2/3 speakers, configure the "Power Amp Assign" setting (p.111) in the "Setup" menu after connecting the power cable to an AC wall outlet.





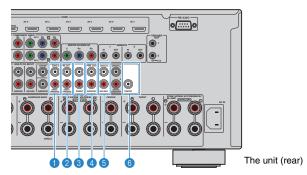
- You can select a zone (Zone2 or Zone3) to be assigned to the EXTRA SP 1–2 jacks in "Power Amp Assign" (p.111) in the "Setup" menu. By default, Zone2 is assigned to the EXTRA SP 1 jacks and Zone3 is assigned to the EXTRA SP 2 jacks.
- You can also connect Zone2 and Zone3 speakers using an external amplifier (p.88).

Connecting an external power amplifier

When connecting an external power amplifier (pre-main amplifier) to enhance speaker output, connect the input jacks of the power amplifier to the PRE OUT jacks of the unit. The same channel signals are output from the PRE OUT jacks as from their corresponding SPEAKERS terminals.

Caution

- . To prevent the generation of loud noises or abnormal sounds, make sure the followings before making
- Remove the power cable of the unit and turn off the external power amplifier before connecting them.
- When using the PRE OUT jacks, do not connect speakers to the corresponding SPEAKERS terminals.
- When using a pre-main amplifier that does not have the volume control bypass, turn up the volume of the pre-main amplifier enough and fix it. In this case, do not connect other devices (except the unit) to the pre-main amplifier.



F.PRESENCE jacks (RX-V3075 only)

Output front presence channel audio signals or Zone2 audio signals depending on the "Power Amp Assign" setting (p.111).

R.PRESENCE jacks (RX-V3075 only)

Output rear presence channel audio signals or Zone3 audio signals depending on the "Power Amp Assign" setting (p.111).

§ FRONT jacks

Output front channel sounds.

SURROUND jacks

Output surround channel sounds.

SUR. BACK jacks

Output surround back channel sounds. When using only one surround back speaker, connect the external amplifier to the SINGLE jack (L side).

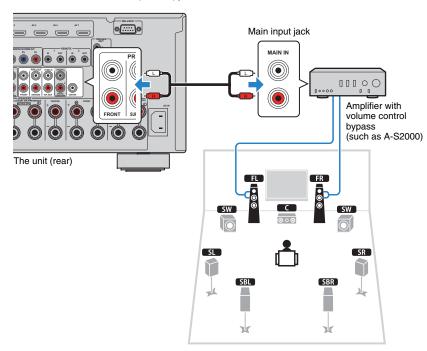
6 CENTER jack

Outputs center channel sounds.

(Example)

Connecting front speakers via an external power amplifier

PRE OUT (FRONT) jacks



About external power amplifiers

We recommend using power amplifiers that meet the following conditions.

- With unbalanced inputs
- With volume control bypass (or without volume control circuit)
- Output power: about 100 W (6 to 8 Ω)

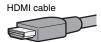
Input/output jacks and cables

Video/audio jacks

☐ HDMI jacks

Transmit digital video and digital sound through a single jack. Use an HDMI cable.







 Use a 19-pin HDMI cable with the HDMI logo. We recommend using a cable less than 5.0 m (16.4 ft) long to prevent signal quality degradation.

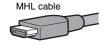


- The unit's HDMI jacks support the HDMI Control, Audio Return Channel (ARC), and 3D and 4K video transmission features.
- Use high speed HDMI cables to enjoy 3D or 4K videos.

☐ HDMI/MHL jack

Transmits digital video and digital sound. Use an MHL cable.





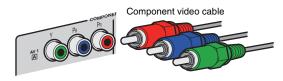


 The VIDEO AUX jack on the front panel of the unit supports both HDMI and MHL connections. Use a cable that matches the jack on your MHL-compatible mobile device. When connecting an HDMI-compatible playback device to the VIDEO AUX jack, use an HDMI cable. For details on an MHL connection, see "MHL connection" (p.44).

Video jacks

□ COMPONENT VIDEO jacks

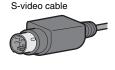
Transmit video signals separated into three components: luminance (Y), chrominance blue (PB), and chrominance red (PR). Use a component video cable with three plugs.



☐ S VIDEO jack

Transmits S-video signals that include luminance (Y) and chrominance (C) components. Use an S-video cable.

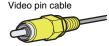




☐ VIDEO jacks

Transmit analog video signals. Use a video pin cable.





Audio jacks

□ OPTICAL jacks

Transmit digital audio signals. Use a digital optical cable. Remove the tip protector (if available) before using the cable.





☐ COAXIAL jacks

Transmit digital audio signals. Use a digital coaxial cable.

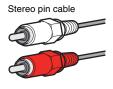




☐ AUDIO jacks

Transmit analog stereo audio signals. Use a stereo pin cable (RCA cable).





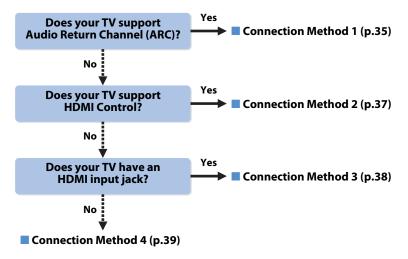
1 2 TV connection 3 4 5 6 7 8 9

2 Connecting a TV

Connect a TV to the unit so that video input to the unit can be output to the TV. You can also enjoy playback of TV audio on the unit.

The connection method varies depending on the functions and video input jacks available on your TV.

Refer to the instruction manual of the TV and choose a connection method.



About HDMI Control

HDMI Control allows you to operate external devices via HDMI. If you connect a TV that supports HDMI Control to the unit with an HDMI cable, you can control the unit's power and volume with the TV's remote control. You can also control playback devices (such as an HDMI Control-compatible BD/DVD player) connected to the unit with an HDMI cable. For details, see "HDMI Control" (p.156).

About Audio Return Channel (ARC)

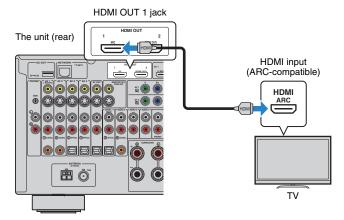
ARC allows audio signals to travel both ways under HDMI Control. If you connect a TV that supports HDMI Control and ARC to the unit with a single HDMI cable, you can output video/audio to the TV or input TV audio to the unit.

■ Connection Method 1 (HDMI Control/ARC-compatible TV)

Connect the TV to the unit with an HDMI cable.



- The following explanation is based on the assumption that you have not changed the "HDMI" parameters (p.119) in the "Setup" menu.
- HDMI Control is available only on the HDMI OUT 1 jack.
- Use an HDMI cable that supports ARC.





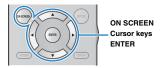
- By connecting a TV to the unit with an HDMI cable, any video input to the unit can be output to the TV, regardless of the method used to connect the video device to the unit. For details, see "Video signal flow" (p.154).
- You can connect another TV or a projector by using the HDMI OUT 2 jack (p.40).

2 TV connection 3 | 4 | 5 | 6 | 7 | 8 | 9

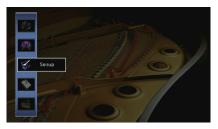
■ Necessary settings

To use HDMI Control and ARC, you need to configure the following settings. For details on settings and operating your TV, refer to the instruction manual for the TV.

- After connecting external devices (such as a TV and playback devices) and the power cable to the unit, turn on the unit, TV, and playback devices.
- Configure the settings of the unit.
 - 1) Check that ARC is enabled on the TV.
 - 2 Switch the TV input to display video from the unit.
 - 3 Press ON SCREEN.



4 Use the cursor keys to select "Setup" and press ENTER.



⑤ Use the cursor keys (△/▷) to select "HDMI".



- ⑥ Use the cursor keys (\triangle / ∇) to select "HDMI Control" and press ENTER.
- ① Use the cursor keys to select "On".
- (8) Press ON SCREEN.

Configure the settings for HDMI Control.

- 1 Enable HDMI Control on the TV and playback devices (such as HDMI Control-compatible BD/DVD player).
- 2) Turn off the TV's main power and then turn off the unit and playback devices.
- 3 Turn on the unit and playback devices and then turn on the TV's main power.
- 4 Switch the TV input to display video from the unit.
- (5) Check the following.

On the unit: The input to which the playback device is connected is selected. If not, select the input source manually.

On the TV: The video from the playback device is displayed.

(6) Check that the unit is properly synchronized with the TV by turning off the TV or adjusting the TV volume with the TV remote control.

This completes the necessary settings.

If you select a TV program with the TV remote control, the input source of the unit will be automatically switched to "AUDIO 1" and the TV audio will be played back on the unit. If you cannot hear the TV's audio, check that "ARC" (p.119) in the "Setup" menu is set to "On".



- If HDMI Control does not work properly, try turning off and on (or unplugging and then plugging in again) the devices. It may solve the problem.
- If the unit is not synchronized to the TV's power operations, check the priority of the audio output setting on
- If the audio is interrupted while using ARC, set "ARC" (p.119) in the "Setup" menu to "Off" and use an audio cable (digital optical or stereo pin cable) to input TV audio to the unit (p.37).



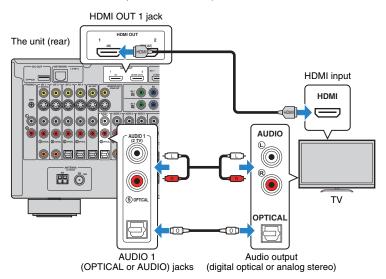
• "AUDIO 1" is set as TV audio input at the factory. If you have connected any external device to the AUDIO 1 jacks, use "TV Audio Input" (p.119) in the "Setup" menu to change the TV audio input assignment. To use the SCENE function (p.62), you also need to change the input assignment for SCENE(TV).

Connection Method 2 (HDMI Control-compatible TV)

Connect the TV to the unit with an HDMI cable and an audio cable (digital optical or stereo pin cable).



- The following explanation is based on the assumption that you have not changed the "HDMI" parameters (p.119) in the "Setup" menu.
- HDMI Control is available only on the HDMI OUT 1 jack.

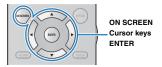


- By connecting a TV to the unit with an HDMI cable, any video input to the unit can be output to the TV, regardless of the method used to connect the video device to the unit. For details, see "Video signal flow" (p.154).
- You can connect another TV or a projector by using the HDMI OUT 2 jack (p.40).

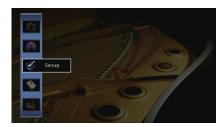
■ Necessary settings

To use HDMI Control, you need to configure the following settings. For details on settings and operating your TV, refer to the instruction manual for the TV.

- After connecting external devices (such as a TV and playback devices) and power cable of the unit, turn on the unit, TV, and playback devices.
- Configure the settings of the unit.
 - ① Switch the TV input to display video from the unit.
 - ② Press ON SCREEN.



③ Use the cursor keys to select "Setup" and press ENTER.



④ Use the cursor keys (△/▷) to select "HDMI".



- 6 Use the cursor keys to select "On".
- 7 Press ON SCREEN.

3 Configure the settings for HDMI Control.

- ① Enable HDMI Control on the TV and playback devices (such as a HDMI Control-compatible BD/DVD player).
- 2) Turn off the TV's main power and then turn off the unit and playback devices.
- 3 Turn on the unit and playback devices and then turn on the TV.
- 4 Switch the TV input to display video from the unit.
- (5) Check the following.

On the unit: The input to which the playback device is connected is selected. If not, select the input source manually.

On the TV: The video from the playback device is displayed.

⑥ Check that the unit is properly synchronized with the TV by turning off the TV or adjusting the TV volume with the TV remote control.

This completes the necessary settings.

If you select a TV program with the TV remote control, the input source of the unit will be automatically switched to "AUDIO 1" and the TV audio will be played back on the unit.



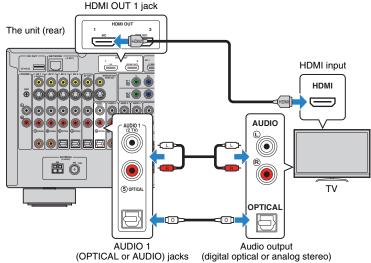
- If HDMI Control does not work properly, try turning off and on (or unplugging and then plugging in again) the devices. It may solve the problem.
- If the unit is not synchronized to the TV's power operations, check the priority of the audio output setting on the TV.



• "AUDIO 1" is set as TV audio input at the factory. If you have connected any external device to the AUDIO 1 jacks, use "TV Audio Input" (p.119) in the "Setup" menu to change the TV audio input assignment. To use the SCENE function (p.62), you also need to change the input assignment for SCENE(TV).

Connection Method 3 (TV with HDMI input jacks)

Connect the TV to the unit with an HDMI cable and an audio cable (digital optical or stereo pin cable).



If you select "AUDIO 1" as the input source by pressing AUDIO 1 or SCENE(TV) on the

WE

- By connecting a TV to the unit with an HDMI cable, any video input to the unit can be output to the TV, regardless of the method used to connect the video device to the unit. For details, see "Video signal flow" (p.154).
- If you have connected any external device to the AUDIO 1 jacks, connect the TV to one of the AUDIO 2–4
 jacks. To use the SCENE function (p.62), you also need to change the input assignment for SCENE(TV).
- You can connect another TV or a projector by using the HDMI OUT 2 jack (p.40).

remote control, the TV audio will be played back on the unit.

Connection Method 4 (TV without HDMI input jacks)

Depending on the video input jacks available on your TV, choose one of the following connections.

If you select "AUDIO 1" as the input source by pressing AUDIO 1 or SCENE(TV) on the remote control, the TV audio will be played back on the unit.

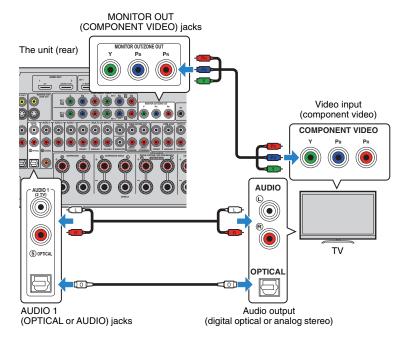


If you connect your TV to the unit with a cable other than HDMI, video input to the unit via HDMI cannot be
output to the TV. Also, analog videos that can be output to the TV differ according to the "Analog to Analog
Conversion" setting in the "Setup" menu. For details, see "Video signal flow" (p.154).

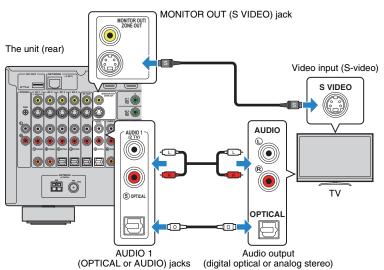


If you have connected any external device to the AUDIO 1 jacks, connect the TV to one of the AUDIO 2–4
jacks. To use the SCENE function (p.62), you also need to change the input assignment for SCENE(TV).

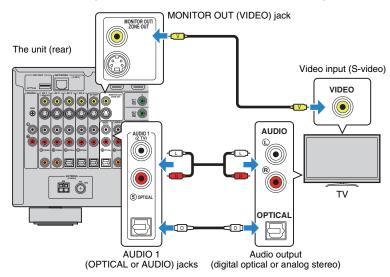
☐ COMPONENT VIDEO connection (with a component video cable)



☐ S VIDEO connection (with an S-video cable)

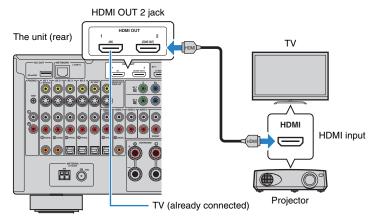


☐ VIDEO (composite video) connection (with a video pin cable)



Connecting another TV or a projector

The unit has two HDMI output jacks. If you connect another TV or a projector to the unit with an HDMI cable, you can switch the TV (or projector) to be used for watching videos with the remote control (p.61).





- HDMI Control is not available on the HDMI OUT 2 jack.
- If you set "HDMI OUT2 Assign" (p.124) in the "Setup" menu to "Zone2" or "Zone4", you can connect a video monitor for Zone2 or Zone4 to the HDMI OUT 2 jack and enjoy videos and audio using the video monitor (p.90).

3 Connecting playback devices

The unit is equipped with a variety of input jacks including HDMI input jacks to allow you to connect different types of playback devices. For information on how to connect an iPod or a USB storage device, see the following pages.

- Connecting an iPod (p.73)
- Connecting a USB storage device (p.77)

Connecting video devices (such as BD/DVD players)

Connect video devices such as BD/DVD players, set-top boxes (STBs) and game consoles to the unit. Depending on the video/audio output jacks available on your video device, choose one of the following connections. We recommend using an HDMI connection if the video device has an HDMI output jack.



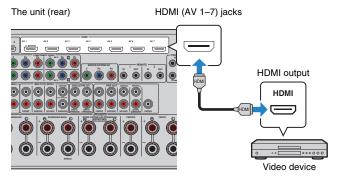
- Videos input to the unit via HDMI cannot be output to a TV connected to the unit with a cable other than HDMI.
- The following explanation is based on the assumption that you have not changed the "Input Assignment" setting (p.124) in the "Setup" menu. As necessary, you can assign the COMPONENT VIDEO (A, B, C, D), COAXIAL (1, 2, 6) and OPTICAL (3, 4, 5) jacks to another input source.



If you make more than one audio connection for one input source, an audio signal played back on the unit
will be determined according to the "Audio Select" setting (p.98) in the "Option" menu.

HDMI connection

Connect a video device to the unit with an HDMI cable.

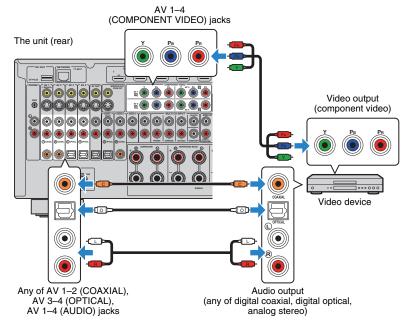


If you select the input source by pressing AV 1–7 on the remote control, the video/audio played back on the video device will be output from the unit.

Component video connection

Connect a video device to the unit with a component video cable and an audio cable (digital coaxial, digital optical or stereo pin cable). Choose a set of input jacks (on the unit) depending on the audio output jacks available on your video device.

Output jacks on video device		Input jacks on the unit	
Video Audio			
	Digital coaxial	AV 1–2 (COMPONENT VIDEO + COAXIAL)	
Component video	Digital optical	AV 3-4 (COMPONENT VIDEO + OPTICAL)	
	Analog stereo	AV 1-4 (COMPONENT VIDEO + AUDIO)	



If you select the input source by pressing AV 1–4 on the remote control, the video/audio played back on the video device will be output from the unit.

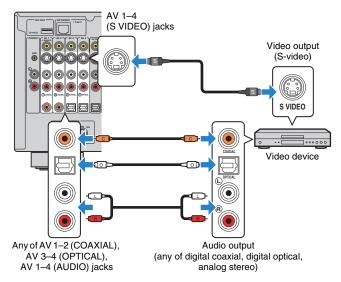
1 2 3 Playback device connections 4 5 6 7 8 9

S-video connection

Connect a video device to the unit with an S-video cable and an audio cable (digital coaxial, digital optical or stereo pin cable). Choose a set of input jacks (on the unit) depending on the audio output jacks available on your video device.

Output jacks on video device		Input jacks on the unit	
Video Audio			
	Digital coaxial	AV 1-2 (S VIDEO + COAXIAL)	
S-video	Digital optical	AV 3-4 (S VIDEO + OPTICAL)	
	Analog stereo	AV 1–4 (S VIDEO + AUDIO)	

The unit (rear)



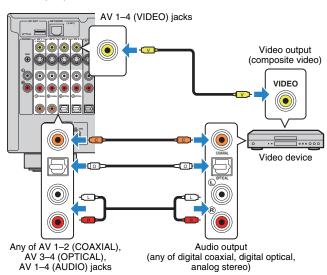
If you select the input source by pressing AV 1–4 on the remote control, the video/audio played back on the video device will be output from the unit.

Composite video connection

Connect a video device to the unit with a video pin cable and an audio cable (digital coaxial, digital optical, or stereo pin cable). Choose a set of input jacks (on the unit) depending on the audio output jacks available on your video device.

Output jacks on video device		Input jacks on the unit	
Video Audio			
	Digital coaxial	AV 1-2 (VIDEO + COAXIAL)	
Composite video	Digital optical	AV 3-4 (VIDEO + OPTICAL)	
	Analog stereo	AV 1–4 (VIDEO + AUDIO)	

The unit (rear)



If you select the input source by pressing AV 1–4 on the remote control, the video/audio played back on the video device will be output from the unit.

1 2 3 Playback device connections 4 5 6 7 8 9

Connecting audio devices (such as CD players)

Connect audio devices such as CD players, MD players, and a turntable to the unit. Depending on the audio output jacks available on your audio device, choose one of the following connections.

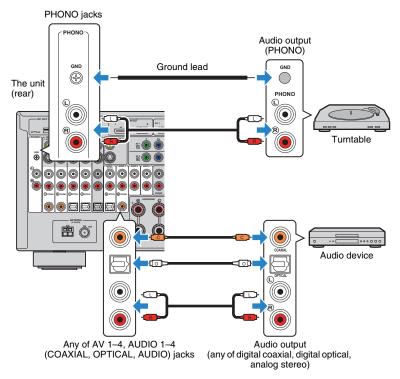


The following explanation is based on the assumption that you have not changed the "Input Assignment" setting (p.124) in the "Setup" menu. As necessary, you can assign the COAXIAL (①, ②, ⑥) and OPTICAL (③, ⑥, ⑥) jacks to another input source.



If you make more than one audio connection for one input source, an audio signal played back on the unit
will be determined according to the "Audio Select" setting (p.98) in the "Option" menu.

Audio output jacks on audio device	Audio output jacks on the unit	
Digital coaxial	AV 1–2 (COAXIAL) AUDIO 2 (COAXIAL)	
Digital optical	AV 3-4 (OPTICAL) AUDIO 1 (OPTICAL)	
Analog stereo	AV 1–4 (AUDIO) AUDIO 1–4 (AUDIO)	
Turntable (PHONO)	PHONO	



If you select the input source by pressing AV 1–4, AUDIO 1–4 or PHONO on the remote control, the audio played back on the audio device will be output from the unit.

When connecting a turntable

- The PHONO jack of the unit is compatible with an MM cartridge. To connect a turntable with a low-output MC cartridge, use a boosting transformer.
- · Connecting the turntable to the GND terminal of the unit may reduce noise in the signal.

1 2 3 Playback device connections 4 5 6 7 8 9

Connecting to the jacks on the front panel

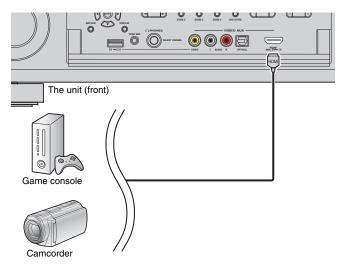
Use the VIDEO AUX jack to temporarily connect a playback device to the unit.

Use the USB jack to connect an iPod or a USB storage device. For details, see "Connecting an iPod" (p.73) or "Connecting a USB storage device" (p.77).

Before making a connection, stop playback on the device and turn down the volume on the unit.

□ HDMI connection

Connect an HDMI-compatible device (such as game consoles and camcorders) to the unit with an HDMI cable.



If you select "V-AUX" as the input source by pressing V-AUX on the remote control, the video/audio played back on the device will be output from the unit.



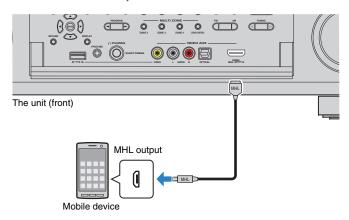
- To watch videos input to the VIDEO AUX (HDMI/MHL IN) jack, you need to connect your TV to the HDMI OUT jack of the unit (p.35 to 38).
- You need to prepare an HDMI cable that matches the output jacks on your device.



 When "USB" is selected as the input source, video signals input to the VIDEO AUX jacks are output from the HDMI OUT and MONITOR OUT jacks by default. You can change the video out setting in "Video Out" (p.100) in the "Input" menu.

☐ MHL connection

Connect an MHL-compatible mobile device (such as smartphones) to the unit with an MHL cable. You can enjoy full HD videos and multichannel audio sources stored on the mobile device. The VIDEO AUX (HDMI/MHL IN) jack of the unit enables you to input videos and audio directly from the mobile device to the unit.



If you select "V-AUX" as the input source by pressing V-AUX, the video/audio played back on the mobile device will be output from the unit.



- To watch videos input to the VIDEO AUX (HDMI/MHL IN) jack, you need to connect your TV to the HDMI OUT jack of the unit (p.35 to 38).
- You need to prepare an MHL cable that matches the jack on your mobile device.
- If you cannot hear sounds played on the mobile device, check the volume of the mobile device.

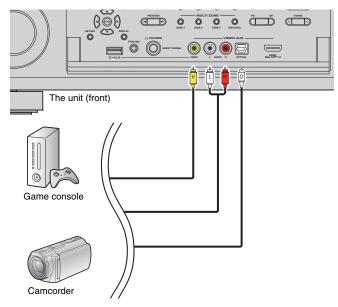


- You can operate the mobile device using the menu operation keys, external device operation keys and numeric keys on the remote control. However, some features may not be compatible, depending on the mobile device or its application. In this case, operate the mobile device itself.
- If "Standby Through" (p.120) in the "Setup" menu is set to "On", you can output mobile device videos/audio
 to the TV or operate the mobile device using the remote control of the unit even when the unit is in standby
 mode.
- The unit supplies power to the mobile device in the following conditions.
- The unit is turned on.
- The unit is in standby mode while "Standby Through" (p.120) in the "Setup" menu is set to "On".

1 2 3 Playback device connections 4 FM/AM antenna connections 5 6 7 8 9

☐ Composite video/analog stereo/digital optical connection

Connect a playback device (such as game consoles and camcorders) to the unit with a video pin cable and an audio cable (digital optical or stereo pin cable).



If you select "V-AUX" as the input source by pressing V-AUX, the video/audio played back on the device will be output from the unit.



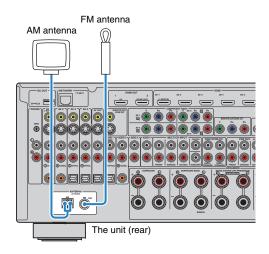
 If you connect video devices to both the VIDEO AUX (HDMI/MHL IN) jack and VIDEO AUX (VIDEO/AUDIO/OPTICAL) jacks, the unit outputs video/audio input through the VIDEO AUX (HDMI/MHL IN) jack.

4 Connecting the FM/AM antennas

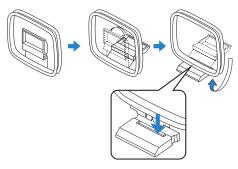
Connect the supplied FM/AM antennas to the unit.

Fix the end of the FM antenna to a wall, and place the AM antenna on a flat surface.

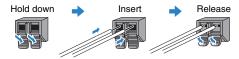
• The location of the antenna jacks varies depending on the region of purchase.



Assembling the AM antenna



Connecting the AM antenna



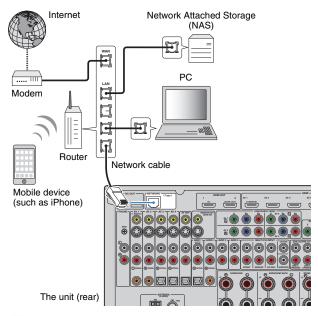


- . Unwind only the length of cable needed from the AM antenna unit.
- The wires of the AM antenna have no polarity.

5 Connecting to a network

Connect the unit to your router with a commercially-available STP network cable (CAT-5 or higher straight cable).

You can enjoy Internet radio or music files stored on media servers, such as PCs and Network Attached Storage (NAS), on the unit.





- If you are using a router that supports DHCP, you do not need to configure any network settings for the unit, as the network parameters (such as the IP address) will be assigned automatically to it. You only need to configure the network settings if your router does not support DHCP or if you want to configure the network parameters manually (p.120).
- You can check whether the network parameters (such as IP address) are properly assigned to the unit in "Network" (p.129) in the "Information" menu.



- Some security software installed on your PC or the firewall settings of network devices (such as a router)
 may block the access of the unit to the network devices or the Internet. In these cases, configure the
 security software or firewall settings appropriately.
- Each server must be connected to the same subnet as the unit.
- To use the service via the Internet, broadband connection is strongly recommended.

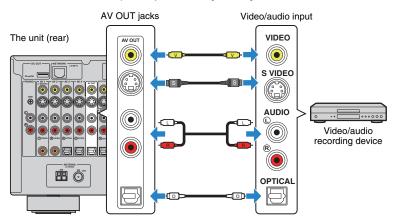
Connecting other devices

Connecting recording devices

You can connect video/audio recording devices to the AV OUT jacks. These jacks output video/audio signals selected as the input.



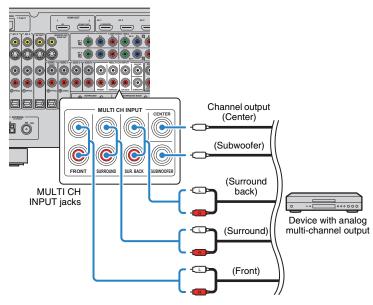
- The AV OUT jacks cannot output video/audio signals input through the HDMI or COMPONENT VIDEO
- . Be sure to use the AV OUT jacks only for connecting recording devices.



Connecting a device with analog multi-channel output

You can connect an analog multi-channel output device such as a DVD player and an SACD player to the MULTI CH INPUT jacks.

The unit (rear)



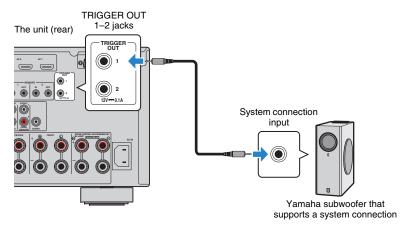
If you select "MULTI CH" as the input source by pressing MULTI on the remote control, the audio played back on the device will be output from the unit.



- You can select a video source to be displayed when "MULTI CH" is selected as the input source using "Video Out" (p.100) in the "Input" menu. When connecting a video device (such as a DVD player) to the MULTI CH INPUT jacks, use the input jack specified in "Video Out" for the video connection.
- · Since the unit does not redirect signals input to the MULTI CH INPUT jacks to accommodate for missing speakers, make appropriate settings on the external device (such as a DVD player) that suit to the speaker configuration.
- When "MULTI CH" is selected as the input source, sound mode selection and tone control adjustment are not available.

Connecting a device compatible with the trigger function

The trigger function can control an external device in conjunction with operating the unit (such as powering on/off and input selection). If you have a Yamaha subwoofer that supports a system connection or a device with a trigger input jack, you can use the trigger function by connecting the external device to one of the TRIGGER OUT jacks.



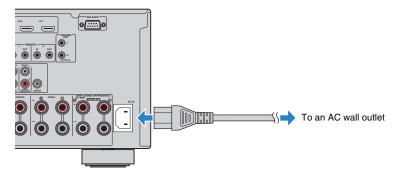


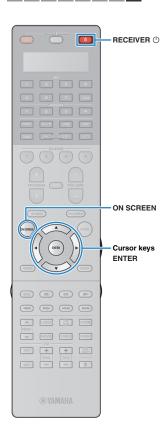
• You can configure the trigger function settings in "Trigger Output1" and "Trigger Output2" (p.125) in the "Setup" menu.

7 Connecting the power cable

After all the connections are complete, connect the supplied power cable to the unit and then to an AC wall outlet.

The unit (rear)

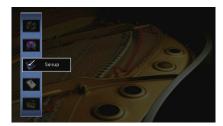




Selecting an on-screen menu language

Select the desired on-screen menu language from English, Japanese, French, German, Spanish, Russian, Italian and Chinese.

- Press RECEIVER () to turn on the unit.
- Turn on the TV and switch the TV input to display video from the unit.
- Press ON SCREEN.
- Use the cursor keys to select "Setup" and press ENTER.



Use the cursor keys (
(
|
|
to select "Language" and the cursor keys (\triangle/∇) to select the desired language.



- To confirm the setting, press ENTER.
- To exit from the menu, press ON SCREEN.



• The information on the front display is provided in English only.



Optimizing the speaker settings automatically (YPAO)

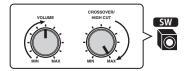
The Yamaha Parametric room Acoustic Optimizer (YPAO) function detects speaker connections, measures the distances from them to your listening position(s), and then automatically optimizes the speaker settings, such as volume balance and acoustic parameters, to suit your room.



• The YPAO function of the unit adopts the YPAO-R.S.C. (Reflected Sound Control) technology that enables to create natural sound fields like a room specifically designed for acoustic perfection.



- Please note the following when using YPAO.
- Use YPAO after connecting a TV and speakers to the unit.
- During the measuring process, test tones are output at high volume. Ensure that the test tones do not frighten small children. Also, refrain from using this function at night when it may be a nuisance to others.
- During the measuring process, you cannot adjust the volume.
- During the measuring process, keep the room as quiet as possible.
- Do not connect headphones.
- Press RECEIVER (1) to turn on the unit.
- Turn on the TV and switch the TV input to display video from the unit.
- Turn on the subwoofer and set the volume to half. If the crossover frequency is adjustable, set it to maximum.

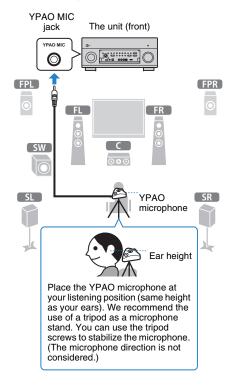


According to your speaker configuration, configure the "Power Amp Assign" setting (p.111) in the "Setup" menu.

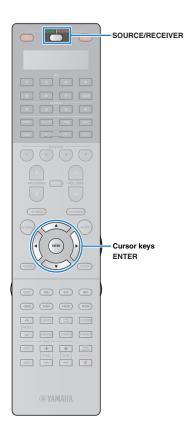
For the basic speaker configuration (p.19): set to "Basic" (default).

For any of the advanced speaker configurations (p.24): set to the appropriate setting.

Place the YPAO microphone at your listening position (same height as your ears) and connect it to the YPAO MIC jack on the front panel.



9 Automatic speaker setup



The following screen appears on the TV.





· To cancel the operation, disconnect the YPAO microphone before starting the measurement.

If desired, select the measuring options.

- ① Use the cursor keys to select "Multi Position" (p.51) or "Angle" (p.52) (RX-V3075 only) and press ENTER.
- ② Use the cursor keys to select a setting and then press ENTER.



• If the cursor keys do not work, the remote control may be set to operate external devices. In this case, press SOURCE/RECEIVER (to light up the key in orange) and then use the cursor keys.

This completes the preparations. See the following page to start the measurement

When "Multi Position" is set to "Yes":

"Measuring at multiple listening positions (multi measure)" (p.55)

When "Multi Position" is set to "No":

"Measuring at one listening position (single measure)" (p.53)

■ Multi Position

Selects multi measure or single measure.



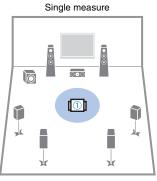
Settings

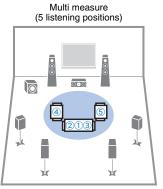
Yes	Select this option if you will have several listening positions or if you want others to enjoy surround sound. You can take measurements at up to 8 different positions in the room. The speaker settings will be optimized to suit the area defined by those positions (multi measure).
No (default)	Select this option if your listening position will always be fixed. Take the measurements at only one position. The speaker settings will be optimized to suit that position (single measure).



- If you perform the multi measure, the speaker settings will be optimized for you to enjoy surround sound in a wider space.
- · If you perform the multi measure, first place the YPAO microphone at the listening position you will be seated most frequently.

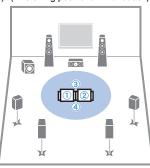
9 Automatic speaker setup





Multi measure Multi measure (1 listening position + front/back/left/right) (2 listening positions + front/back)





☐ Angle

(RX-V3075 only)

Enables/disables the angle measurement.



Settings

Yes	Enables the angle measurement. The unit will measure angle of each speaker at the listening position and correct the speaker parameters so that CINEMA DSP can create more effective sound fields.
No (default)	Disables the angle measurement.



Measuring at one listening position (single measure)

When "Multi Position" is set to "No", follow the procedure below for measurement.



- Do not stand between the speakers and the YPAO microphone during the measurement process (about 5 minutes)
- · Move to the corner of the room or leave the room.
- If any error message (such as E-1) or warning message (such as W-1) appears, see "Error messages" (p.59) or "Warning messages" (p.60).

To start the measurement, use the cursor keys to select "Measure" and press ENTER.

The measurement will start in 10 seconds. Press ENTER again to start the measurement immediately.



· To cancel the measurement temporarily, press RETURN.

The following screen appears on the TV when the measurement finishes.

(RX-V2075)

(RX-V3075 [when angle measurement is disabled])





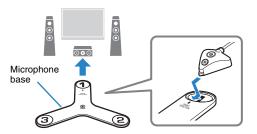
(RX-V3075 [when angle measurement is enabled])

Proceed to Step 2.



Perform the angle measurement.

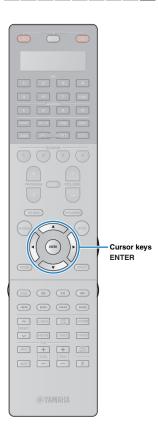
- ① Use the cursor keys to select "YES" and press ENTER. Select "NO" to cancel the angle measurement.
- 2 Place the supplied microphone base at the listening position and set the YPAO microphone to the position "1".





- We recommend using a tripod to place the microphone base at ear height. Use the tripod screws to fix the microphone base in place.
- Do not move the microphone base until the third angle measurement finishes

9 Automatic speaker setup



3 Press ENTER to start the first angle measurement. The following screen appears on the TV when the first angle measurement finishes.



4 In the same way, perform the angle measurement for the positions "2" and "3".

The following screen appears on the TV when the third angle measurement finishes.



Use the cursor keys to select "Save/Cancel" and press ENTER.



• To check the measurement results, select "Result". For details, see "Checking the measurement results" (p.57).

To save the measurement results, use the cursor keys (\triangleleft / \triangleright) to select "SAVE" and press ENTER.



The adjusted speaker settings are applied.



• To finish the measurement without saving the result, select "CANCEL".

Disconnect the YPAO microphone from the unit.

This completes optimization of the speaker settings.

Caution

• The YPAO microphone is sensitive to heat, so should not be placed anywhere where it could be exposed to direct sunlight or high temperatures (such as on top of AV equipment).



Measuring at multiple listening positions (multi measure)

When "Multi Position" is set to "Yes", follow the procedure below for measurement.



- Do not stand between the speakers and the YPAO microphone during the measurement process. It takes about 15 minutes to measure 8 listening positions.
- Move to the corner of the room or leave the room.
- If any error message (such as E-1) or warning message (such as W-1) appears, see "Error messages" (p.59) or "Warning messages" (p.60).
- To start the measurement, use the cursor keys to select "Measure" and press ENTER.

The measurement will start in 10 seconds. Press ENTER again to start the measurement immediately.



· To cancel the measurement temporarily, press RETURN.

The following screen appears on the TV when the measurement at the first position finishes.



Move the YPAO microphone to the next listening position and press ENTER.

Repeat Step 2 until measurements at all listening positions (up to 8) have been taken.

When the measurements at the positions you want to measure are completed, use the cursor keys to select "CANCEL" and press ENTER.

When you have taken measurements at 8 listening positions, the following screen appears automatically.

(RX-V2075)

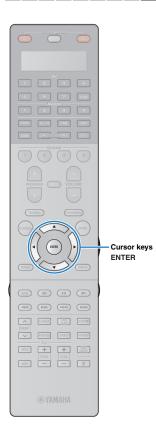
(RX-V3075 [when angle measurement is disabled]) Proceed to Step 5.



(RX-V3075 [when angle measurement is enabled]) Proceed to Step 4.

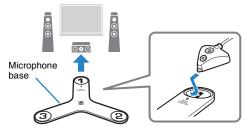


9 Automatic speaker setup



Perform the angle measurement.

- ① Use the cursor keys to select "YES" and press ENTER. Select "NO" to cancel the angle measurement.
- 2 Place the supplied microphone base at the listening position you will be seated most frequently and set the YPAO microphone to the position "1".





- We recommend using a tripod to place the microphone base at ear height. Use the tripod screws to fix the microphone base in place.
- · Do not move the microphone base until the third angle measurement
- ③ Press ENTER to start the first angle measurement. The following screen appears on the TV when the first angle measurement finishes.



4 In the same way, perform the angle measurement for the positions "2" and "3".

The following screen appears on the TV when the third angle measurement finishes.



Use the cursor keys to select "Save/Cancel" and press ENTER.



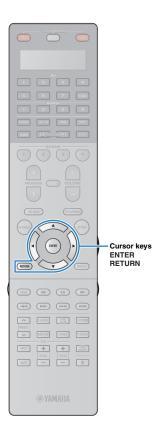
- To check the measurement results, select "Result". For details, see "Checking the measurement results" (p.57).
- To save the measurement result, use the cursor keys to select "SAVE" and press ENTER.



The adjusted speaker settings are applied.



• To finish the measurement without saving the result, select "CANCEL".



Disconnect the YPAO microphone from the unit.

This completes optimization of the speaker settings.

Caution

• The YPAO microphone is sensitive to heat, so should not be placed anywhere where it could be exposed to direct sunlight or high temperatures (such as on top of AV equipment).

Checking the measurement results

You can check the YPAO measurement results.

After the measurement, use the cursor keys to select "Result" and press ENTER.



• You can also select "Result" from "Auto Setup" (p.108) in the "Setup" menu, which displays the previous measurement results.

The following screen appears.



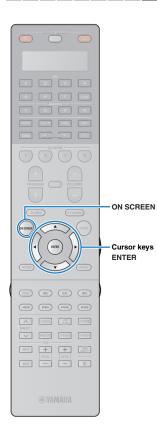
- Measurement result items
- Measurement result details
- 3 The number of measured positions (when multi measure is performed)

Use the cursor keys to select an item.

Wiring	Polarity of each speaker Normal: The speaker cable is connected with the correct polarity (+/-). Reverse: The speaker cable may be connected with the reverse polarity (+/-).
Size	Size of each speaker (cross-over frequency of the subwoofer) Large: The speaker can reproduce low-frequency signals effectively. Small: The speaker cannot reproduce low-frequency signals effectively.
Distance	Distance from the listening position to each speaker
Level	Output level adjustment for each speaker
Angle	(RX-V3075 only) Angle of each speaker at the listening position



- · A speaker with a problem is indicated with a message enclosed in a red box.
- To finish checking the results and return to the previous screen, press RETURN.



Reloading the previous YPAO adjustments

When the speaker settings you have configured manually are not suitable, follow the procedure below to discard the manual settings and reload the previous YPAO adjustments.

- In the "Setup" menu, select "Speaker", "Auto Setup", and then "Result" (p.107).
- 2 Use the cursor keys to select "Setup Reload" and press ENTER.



3 To exit from the menu, press ON SCREEN.

1 2 3 4 5 6 7 8 9 Automatic speaker setup

Error messages

If any error message is displayed during the measurement, resolve the problem and perform YPAO again.



Error message	Cause	Remedy
E-1: No Front SP	Front speakers are not detected.	
E-2: No Sur. SP One of the surround speakers cannot be detected.		Follow the on-screen instructions to exit YPAO, turn off the unit, and then check the speaker connections.
E-3: No F.PRNS SP	One of the front presence speakers cannot be detected.	
		When using only one surround back speaker, you need to connect it to the SINGLE jack (L side). Follow the on-screen instructions to exit YPAO, turn off the unit, and then reconnect the speaker.
		Keep the room quiet and follow the on-screen instructions to start the measurement again. If you select "PROCEED", YPAO takes the measurement again and ignores any noise detected.
		Surround speakers need to be connected in order to use surround back speakers. Follow the on-screen instructions to exit YPAO, turn off the unit, and then reconnect the speakers.
E-7: No MIC	The YPAO microphone has been removed.	Connect the YPAO microphone to the YPAO MIC jack firmly and follow the on-screen instructions to start the measurement again.
E-8: No Signal	The YPAO microphone cannot detect test tones.	Connect the YPAO microphone to the YPAO MIC jack firmly and follow the on-screen instructions to start the measurement again. If this error occurs repeatedly, contact the nearest authorized Yamaha dealer or service center.
E-9: User Cancel	The measurement has been canceled.	Follow the on-screen instructions to start the measurement again. To cancel the measurement, select "EXIT".
		Follow the on-screen instructions to exit YPAO, turn off and on the unit. If this error occurs repeatedly, contact the nearest authorized Yamaha dealer or service center.
E-11: No R.PRNS SP	One of the rear presence speakers cannot be detected.	Follow the on-screen instructions to exit YPAO, turn off the unit, and then check the speaker connections.

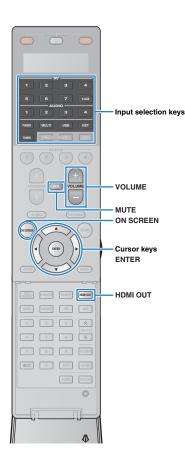
1 2 3 4 5 6 7 8 9 Automatic speaker setup

Warning messages

If a warning message is displayed after the measurement, you can still save the measurement results by following on-screen instructions. However, we recommend you perform YPAO again in order to use the unit with the optimal speaker settings.



Warning message	Cause	Remedy	
W-1: Out of Phase	A speaker cable may be connected with the reverse polarity (+/-).	Select "Wiring" in "Result" (p.57) and check the cable connections (+/-) of the speaker identified by "Reverse". If the speaker is connected incorrectly, turn off the unit and then reconnect the speaker cable. Depending on the type of speakers or room environment, this message may appear even if the speakers are connected correctly. In this case, you can ignore the message.	
W-2: Over Distance	A speaker is placed more than 24 m (80 ft) from the listening position.	Select "Distance" in "Result" (p.57) and move the speaker identified by ">24.00m (>80.0ft)" within 24 m (80 ft) of the listening position.	
W-3: Level Error	There are significant volume differences between the speakers.	Check the usage environment and cable connections (+/-) of each speaker, and the volume of the subwoofer. We recommend using the same speakers or speakers with specifications that are as similar as possible.	



PLAYBACK

Basic playback procedure

- Turn on the external devices (such as a TV or BD/DVD player) connected to the unit.
- Use the input selection keys to select an input source.
- Start playback on the external device or select a radio station.

Refer to the instruction manual for the external device. For details on the following operations, see the corresponding pages.

- Listening to FM/AM radio (p.70)
- Playing back iPod music (p.73)
- · Playing back music stored on a USB storage device (p.77)
- · Playing back music stored on media servers (PCs/NAS) (p.80)
- Listening to Internet radio (p.83)
- Playing back iTunes/iPod music via a network (AirPlay) (p.85)
- Press VOLUME to adjust the volume.



- To mute the audio output, press MUTE. Press MUTE again to unmute.
- · To adjust the treble/bass settings, use the "Option" menu or TONE/BALANCE on the front panel (p.96).



On-screen input selection

- 1) Press ON SCREEN.
- 2 Use the cursor keys to select "Input" and press ENTER.
- 3 Use the cursor keys to select the desired input source and press ENTER.

Selecting an HDMI output jack

Press HDMI OUT to select an HDMI OUT jack.

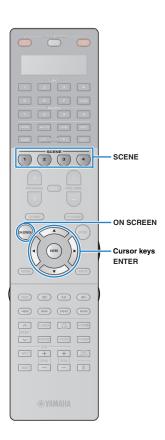
Each time you press the key, the HDMI OUT jack to be used for signal output changes.



OUT 1+2	Outputs the same signal at both the HDMI OUT 1 and HDMI OUT 2 jacks.	
OUT 1	Output the signals at the selected HDMI OUT jack.	
OUT 2		
Off	Does not output the signals at the HDMI OUT jacks.	



- You can also select an HDMI output jack by selecting a scene (p.62).
- When "OUT 1+2" is selected, the unit outputs video signals at the highest resolution supported by both TVs (or projectors) connected to the unit. (For example, if you have connected a 1080p TV to the HDMI OUT 1 jack and a 720p TV to the HDMI OUT 2 jack, the unit outputs 720p video signals.)
- . If the HDMI OUT 2 jack is assigned to Zone2 or Zone4 (p.124), you can turn on/off each zone by pressing HDMI OUT repeatedly.



Selecting the input source and favorite settings with one touch (SCENE)

The SCENE function allows you to select the assigned input source, sound program, HDMI output and various settings with just one touch. You can use up to 12 scenes to register your favorite settings and switch them depending on a playback source.

Press SCENE.

The input source and settings registered to the corresponding scene are selected. The unit turns on automatically when it is in standby mode.

By default, the following settings are registered for each scene.

SCENE (SCENE key)		1 (BD/DVD)	2 (TV)	3 (NET)	4 (RADIO)
Input	Input (p.61)	AV 1	AUDIO 1	NET RADIO	TUNER
iliput	Audio Select (p.98)	Auto	Auto	_	_
HDMI Output	HDMI Output (p.61)	OUT 1+2	OUT 1+2	OUT 1+2	OUT 1+2
	Sound Program (p.64)	Sci-Fi	STRAIGHT	9ch Stereo	9ch Stereo
Mode	Pure Direct Mode (p.116)	Auto	Auto	Auto	Auto
Widde	Enhancer (p.69)	Off	On	On	On
	Enhancer Hi-Res Mode (p.97)	On	On	On	On

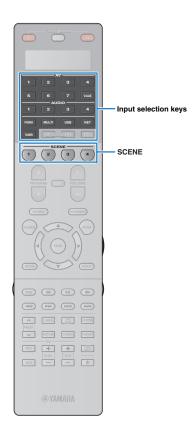


You can select SCENE 1–4 by pressing SCENE on the remote control.
 Additionally, you can create 8 scenes (SCENE 5–12) and select those scenes from the "Scene" menu (p.101).



On-screen scene selection

- 1) Press ON SCREEN.
- ② Use the cursor keys to select "Scene" and press ENTER.
- ③ Use the cursor keys to select a desired scene and press ENTER.



Configuring scene assignments

- Set the unit to the condition (such as input source and sound program) that you want to assign to a scene.
- Hold down the desired SCENE key until "SET Complete" appears on the front display.



If you want to control the corresponding playback device after selecting the scene, hold down the corresponding SCENE key and input selection key together for more than 3 seconds.

Once the setting is completed successfully, "OK" appears in the display window on the remote control.

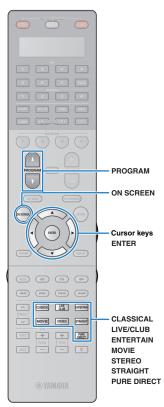


- · If you have not registered the remote control code of the playback device yet, see "Registering the remote control codes for playback devices" (p.134) to register it.
- The SCENE link playback function allows you to start playback of an external device connected to the unit via HDMI. To enable SCENE link playback, specify the device type in "Device Control" (p.102) in the "Scene" menu.

Selecting setting items to be included as scene assignments

In addition to the default scene assignments (Input, HDMI Output and Mode), you can also include the following setting items as the scene assignments in "Detail" (p.103) in the "Scene" menu.

Sound	Tone Control, Adaptive DRC	
Surround CINEMA DSP 3D Mode, Dialogue Lift, Dialogue Level, Subwoofer Trim, Extended Surround		
Video	Video Mode, Video Adjustment	
Volume	Master Volume	
Lipsync	Lipsync, Delay	
Speaker Setup Setting Pattern, PEQ Select		





Selecting the sound mode

The unit is equipped with a variety of sound programs and surround decoders that allow you to enjoy playback sources with your favorite sound mode (such as sound field effect or stereo playback).

☐ Selecting a sound program suitable for movies

- MOVIE THEATER category (p.66): Press MOVIE repeatedly.
- ENTERTAINMENT category (p.66): Press ENTERTAIN repeatedly.

This mode lets you enjoy sound field effects optimized for viewing video sources, such as movies, TV programs, and games.

☐ Selecting a sound program suitable for music or stereo playback

- CLASSICAL category (p.67):
 Press CLASSICAL repeatedly.
- LIVE/CLUB category (p.67):
 Press LIVE/CLUB repeatedly.
- STEREO category (p.67):
 Press STEREO repeatedly.

This mode lets you enjoy sound field effects optimized for listening music sources or stereo playback.

☐ Selecting a surround decoder

• Press SUR.DECODE repeatedly.

This mode lets you enjoy unprocessed multichannel playback from 2-channel sources (p.68).

☐ Switching to the straight decode mode

- Press STRAIGHT.
- This mode lets you enjoy unprocessed sounds in original channels (p.68).

☐ Switching to the Pure Direct mode

• Press PURE DIRECT.

This mode lets you enjoy pure high fidelity sound by reducing the electrical noise from other circuitry (p.69).

☐ Enabling Compressed Music Enhancer

• Press ENHANCER.

This mode lets you enjoy compressed music with additional depth and breadth (p.69).



On-screen sound program/surround decoder selection

- 1 Press ON SCREEN.
- ② Use the cursor keys to select "Sound Program" and press ENTER.
- ③ Use the cursor keys to select a sound program/surround decoder and press ENTER.



- You can also switch the sound programs and surround decoder by pressing PROGRAM.
- You can change the settings of the surround programs and surround decoders in the "Sound Program" menu (p.104).
- The sound mode can be applied separately to each input source.
- You can check which speakers are currently outputting sound by looking at the speaker indicators on the unit's front panel (p.12) or at the "Audio Signal" screen in the "Information" menu (p.128).

Enjoying stereoscopic sound fields (CINEMA DSP HD³/CINEMA DSP 3D)





* CINEMA DSP HD3: RX-V3075, CINEMA DSP 3D: RX-V2075

The unit is equipped with a variety of sound programs that utilize Yamaha's original DSP technology (CINEMA DSP HD³/CINEMA DSP 3D). It allows you to easily create sound fields like actual movie theaters or concert halls in your room and enjoy natural stereoscopic sound fields.

Sound program category



"CINEMA DSP HD3" (RX-V3075) or "CINEMA DSP 3" (RX-V2075) lights up



- To use the conventional CINEMA DSP, set "CINEMA DSP 3D Mode" (p.96) in the "Option" menu to "Off".
- The unit creates front Virtual Presence Speaker (VPS) using the front, center, and surround speakers to produce 3-dimensional sound fields even when no front presence speakers are connected. However, we recommend using front presence speakers in order to experience the full effect of the sound fields (and rear presence speakers for further spatial sounds).
- (RX-V3075 only)
 The unit creates rear Virtual Presence Speaker (VPS) using the front, center, and surround speakers to produce natural 3-dimensional sound fields when front presence speakers are connected but no rear presence speakers.

Enjoying sound field effects without surround speakers (Virtual CINEMA DSP)

If you select one of the sound programs (except 2ch Stereo and 9ch Stereo) when no surround speakers are connected, the unit utilizes Yamaha's original virtual surround technology to reproduce up to 7-channel surround sound and enable you to enjoy the well-oriented sound field only with the front-side speakers. We recommend using presence speakers in order to enjoy more effective stereoscopic sound field.

Enjoying surround sound with headphones (SILENT CINEMA)



You can enjoy surround or sound field effects, like a multichannel speaker system, with stereo headphones by connecting the headphones to the PHONES jack and selecting a sound program or a surround decoder.

■ Sound programs suitable for movies (MOVIE)

The following sound programs are optimized for viewing video sources, such as movies, TV programs, and games.

☐ MOVIE THEATER

Standard	This program creates a sound field that emphasizes the surround feeling without disturbing the original acoustic positioning of multichannel audio, such as Dolby Digital and DTS. Its design is based on the concept of the ideal movie theater, in which the audience is surrounded by beautiful reverberations from the left, right, and rear.	
Spectacle	This program delivers the scale and grandeur of spectacular movie productions. It delivers an expansive sound space to match the cinemascope wide-screen, and boasts a broad dynamic range, providing everything from small delicate sounds to powerful loud booms.	
Sci-Fi	This program clearly reproduces the finely elaborated sound design of the latest Sci-Fi and SFX movies. You can enjoy a variety of cinematographically created virtual spaces reproduced with clear separation between dialogue, sound effects, and background music.	
Adventure	This program is ideal for reproducing the sound design of action and adventure movies precisely. The sound field restrains reverberations, but puts emphasis on reproducing a sensation of expansiveness on both sides, powerful space expanded widely to the left and right. The restrained depth creates a clear and powerful space, while also maintaining the articulation of the sounds and the separation of the channels.	
Drama	This program features stable reverberations that match a wide range of movie genres, from serious dramas to musicals and comedies. The reverberations are modest, but suitably stereophonic. The sound effects and background music are reproduced with a gentle echo that does not impinge on the articulation of the dialogue. You'll never get tired listening for long periods.	
Mono Movie	This program reproduces monaural video sources, such as classic movies, in an atmosphere of a good old movie theater. The program creates a pleasant space with depth, by adding breadth and the appropriate reverberation to the original audio.	

□ ENTERTAINMENT

Sports	This program allows listeners to enjoy the rich vividness of sport broadcasts and light entertainment programs. In sports broadcasts, the commentators' voices are positioned clearly at the center, while the atmosphere inside the stadium is realistically conveyed by the peripheral delivery of the sounds of the fans in a suitable space.		
Action Game	This program is suitable for action games, such as car racing and fighting games. The reality of, and emphasis on, various effects makes the player feel like they are right in the middle of the action, allowing for greater concentration. Use this program in combination with Compressed Music Enhancer for a more dynamic and strong sound field.		
Roleplaying Game	This program is suitable for role-playing and adventure games. This program adds depth to the sound field for natural and realistic reproduction of background music, special effects, and dialogue from a wide variety of scenes. Use this program in combination with Compressed Music Enhancer for a clearer and more spatial sound field.		
Music Video	This program allows you to enjoy videos of pop, rock, and jazz concerts, as if you were there yourself. Immerse yourself in the hot concert atmosphere thanks to the vividness of the singers and solos on stage, a presence sound field that emphasizes the beat of rhythm instruments, and a surround sound field that reproduces the space of a big live hall.		
This program controls the amount of reverberations at an optimum lemphasizes the depth and clarity of human voices to offer the reverberations of an orchestra box in front the listener at the same providing the acoustic positioning and feeling of presence on the surround sound field is relatively moderate, but the data for confects are used to represent the inherent beauty of music. The list not be fatigued even after long hours of opera entertainment.			

■ Sound programs suitable for music/stereo playback (MUSIC)

The following sound programs are optimized for listening to music sources. You can also select stereo playback.

☐ CLASSICAL

Hall in Munich	This program simulates a Munich concert hall with approximately 2,500 seats that uses stylish wood for the interior finishing. Fine, beautiful reverberations spread richly, creating a calming atmosphere. The listener virtual seat is at the center left of the arena.	
Hall in Vienna	This program simulates a 1,700-seat, middle-sized concert hall with a shoebox shape that is traditional in Vienna. Pillars and ornate carvings create extremely complex reverberations from all around the audience, producing a very full, rich sound.	
Hall in Amsterdam	The large, shoe box shaped hall seats about 2,200 around the circle stage. Reflections are rich and pleasing while the sound travels freely.	
Church in Freiburg	Located in the south of Germany, this grand, stone-built church has a pointed tower at 120 meters in height. Its long and narrow shape and the high ceiling enable the elongated reverberation time and limited initial reflection time. Thus, the rich reverberation rather than the sound itself reproduces the atmosphere of the church.	
Church in Royaumont	This program features the sound field created by the refectory (dining hall) of a beautiful medieval Gothic monastery located in Royaumont on the outskirts of Paris.	
Chamber	This program creates a relatively wide space with a high ceiling, like an audience hall in a palace. It offers pleasant reverberations that are suital for courtly music and chamber music.	

☐ LIVE/CLUB

Village Vanguard	The Jazz club is on 7th Avenue, New York. This small club with the low ceiling makes the powerful reflections converge toward the stage located i the center.		
Warehouse Loft	The warehouse resembles some lofts in Soho. Sound reflects off the concrete walls clearly with a lot of energy.		
Cellar Club	This program simulates an intimate concert venue with a low ceiling and homey atmosphere. A realistic, live sound field delivers powerful sounds that make you feel as if you are sitting in the front row in front of a small stage.		
The Roxy Theatre	This program creates the sound field of a 460-seat rock music concert venue in Los Angeles. The listener's virtual seat is at the center left of the hall.		
The Bottom Line	This program creates the sound field at stage front in The Bottom Line, a famous New York jazz club once. The floor can seat 300 people to the left and right in a sound field offering real and vibrant sound.		
☐ STEREO			
2ch Stereo	Use this program to mix down multichannel sources to 2 channels. When multichannel signals are input, they are down mixed to 2 channels and output from the front speakers (this program does not utilize CINEMA DSP)		
9ch Stereo	Use this program to output sound from all speakers. When you play back multichannel sources, the unit mixes down the source to 2 channels, and then outputs the sound from all speakers. This program creates a larger sound field and is ideal for background music at parties.		



• CINEMA DSP HD³/CINEMA DSP 3D (p.65) and Virtual CINEMA DSP (p.65) do not work when "2ch Stereo" or "9ch Stereo" is selected.



Enjoying unprocessed playback

You can play back input sources without any sound field effect processing.

Playing back in original channels (straight decode)

When the straight decode mode is enabled, the unit produces stereo sound from the front speakers for 2-channel sources such as CDs, and produces unprocessed multichannel sounds for multichannel sources.

1 Press STRAIGHT.

Each time you press the key, the straight decode mode is enabled or disabled.





 To enable 6.1/7.1-channel playback from 5.1-channel sources when surround back speakers are used, set "Extended Surround" (p.97) in the "Option" menu to a setting other than "Off".

Playing back 2-channel sources in multichannel (surround decoder)

The surround decoder enables unprocessed multichannel playback from 2-channel sources. When a multichannel source is input, it works the same way as the straight decode mode. For details on each decoder see "Glossary" (p.151).

Press SUR.DECODE to select a surround decoder.

Each time you press the key, the surround decoder changes.



™ Pro Logic	Uses the Dolby Pro Logic decoder suitable for all sources.	
▼PLIIx Movie	Use the Dolby Pro Logic IIx decoder (or Dolby Pro Logic II decoder) suitable for movies.	
▼PLII Movie		
▼PLIIx Music	Use the Dolby Pro Logic IIx decoder (or Dolby Pro Logic II decoder) suitable for music.	
™ PLII Music		
X PLIIx Game	Use the Dolby Pro Logic IIx decoder (or Dolby Pro Logic II decoder) suitable for games.	
 ■PLII Game		
Neo:6 Cinema	Uses the DTS Neo:6 decoder suitable for movies.	
Neo:6 Music	Uses the DTS Neo:6 decoder suitable for music.	



 You cannot select the Dolby Pro Logic IIx decoders when headphones are connected or when "Surround Back" (p.112) in the "Setup" menu is set to "None".



SUR.DECODE





Enjoying pure high fidelity sound (Pure Direct)

When the Pure Direct mode is enabled, the unit plays back the selected source with the least circuitry in order to reduce the electrical noise from other circuitry (such as the front display). It allows you to enjoy Hi-Fi sound quality.

1 Press PURE DIRECT.

Each time you press the key, the Pure Direct mode is enabled or disabled.





- · When the Pure Direct mode is enabled, the following functions are not available.
- Some settings for the speakers or sound programs
- Operating the on-screen and "Option" menus
- Using the multi-zone function
- Output from the AV OUT jacks
- Viewing information on the front display (when not in operation)

Enjoying compressed music with enhanced sound (Compressed Music Enhancer)

compressed music

ENHANCER

Compressed Music Enhancer adds depth and breadth to the sound, allowing you to enjoy a dynamic sound close to the original sound before it was compressed. This function can be used along with any other sound modes.

In addition, Compressed Music Enhancer enhances the quality of uncompressed digital audio (such as 2-channel PCM and FLAC) when "Hi-Res Mode" (p.97) in the "Option" menu is set to "On" (default).

Press ENHANCER.

Each time you press the key, Compressed Music Enhancer is enabled or disabled.



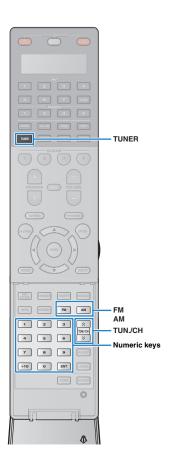
"ENHANCER" lights up



 Compressed Music Enhancer does not work on signals whose sampling rate is over 48 kHz.



 You can also use "Enhancer" (p.97) in the "Option" menu to enable/disable Compressed Music Enhancer.



Listening to FM/AM radio

You can tune into a radio station by specifying its frequency or selecting from registered radio stations.



 If you cannot obtain good reception on the radio, adjust the direction of the FM/AM antennas.

Selecting a frequency for reception

- 1 Press TUNER to select "TUNER" as the input source.
- Press FM or AM to select a band.



Use the following keys to set a frequency.

TUN./CH: Increase/decrease the frequency. Hold down the key for about a second to search stations automatically.

Numeric keys: Enter a frequency directly. For example, to select 98.50 MHz, press "9", "8", "5" and "0" (or ENT).



"TUNED" lights up when a signal is received from a radio station.

"STEREO" also lights up when a stereo signal is received.

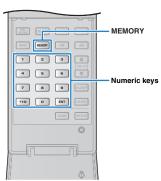


 "Wrong Station!" appears when you enter a frequency that is out of reception range.



 You can switch between "Stereo" (stereo) and "Mono" (monaural) for FM radio reception in "FM Mode" (p.98) in the "Option" menu. When the signal reception for an FM radio station is unstable, switching to monaural may improve it.





Registering favorite radio stations (presets)

You can register up to 40 radio stations as presets. Once you have registered stations, you can easily tune into them by selecting their preset numbers.



· You can automatically register FM radio stations that have strong signals by using "Auto Preset" (p.72).

Registering a radio station

Select a radio station manually and register it to a preset number.

- Follow "Selecting a frequency for reception" (p.70) to tune into the desired radio station.
- Hold down MEMORY for more than 2 seconds.

The first time that you do register a station, the selected radio station will be registered to the preset number "01". Thereafter, each radio station you select will be registered to the next empty (unused) preset number after the most recently registered number.

Preset number





 To select a preset number for registering, press MEMORY once after tuning into the desired radio station, use PRESET or numeric keys to select a preset number, and then press MEMORY again.

"Empty" (not in use) or the frequency currently registered



Selecting a preset station

Tune into a registered radio station by selecting its preset number.

- Press TUNER to select "TUNER" as the input source.
- Press PRESET repeatedly to select the desired radio station.

You can also enter a preset number (01 to 40) directly by using the numeric keys after pressing PRESET once.

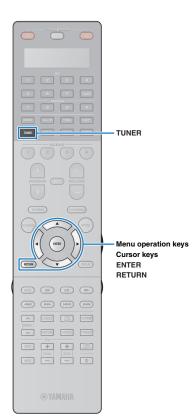




- "No Presets" appears when no radio stations are registered.
- · "Wrong Num." appears when an invalid number is entered.
- · "Empty" appears when a preset number not in use is entered.



• To clear preset stations, use "Clear Preset" or "Clear All Preset" (p.72).



Operating the radio on the TV

You can view the radio information or select a radio station on the TV.

Press TUNER to select "TUNER" as the input source.

The playback screen is displayed on the TV.

■ Playback screen



Radio station information

Displays the information of the selected radio station such as the selected band (FM/AM) and frequency.

2 Band icon Select this icon and press ENTER to switch between FM and AM.

TUNED/STEREO indicators

"TUNED" lights up when a signal is received from a radio station. "STEREO" lights up when a stereo signal is received.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function
Manual Tuning	Tuning (+/-)	Selects a frequency.
	Auto (+/-)	Selects a radio station automatically.
	Memory	Registers the selected station as presets.
	Direct	Enters a frequency directly.
Browse		Moves to the browse screen (preset station list).
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.

Browse screen



Preset station list

Displays the list of preset stations. Use the cursor keys (\triangle/∇) to select a preset station and press ENTER to tune into it.

Preset number

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function	
	Memory	Registers the current station to the preset number selected in the list.	
Utility	Auto Preset	Automatically registers FM radio stations with strong signals (up to 40 stations).	
	Clear Preset	Clear the preset station selected in the list.	
	Clear All Preset	Clear all the preset stations.	
1 Page Up		Moves to the previous/next page of the list.	
1 Page Down			
Now Playing		Moves to the playback screen.	
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.	

Playing back iPod music

You can play back iPod music on the unit using a USB cable supplied with the iPod.



- An iPod may not be detected by the unit or some features may not be compatible, depending on the model or software version of the iPod.
- To play back iPod videos on the unit, an Apple Composite AV Cable (not supplied) is required. Connect the USB and composite video plugs of the Apple Composite AV cable to the USB jack and VIDEO AUX (VIDEO) jack on the front panel. To select a video, operate the iPod itself in the simple play mode (p.75).

Made for.

iPod touch (1st, 2nd, 3rd and 4th generation)

iPod nano (2nd, 3rd, 4th 5th and 6th generation)

iPhone 4S, iPhone 4, iPhone 3GS, iPhone 3G, iPhone

iPad (3rd generation), iPad2, iPad

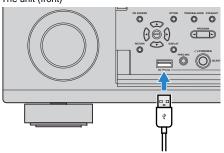
(as of June 2013)

Connecting an iPod

Connect your iPod to the unit with the USB cable supplied with the iPod.

- Connect the USB cable to the iPod.
- Connect the USB cable to the USB jack.





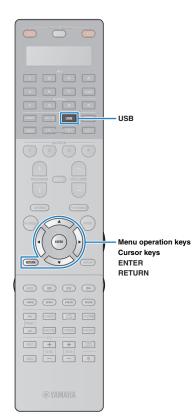




• The iPod charges while it is connected to the unit. If you set the unit to standby mode while the iPod is charging, the iPod continues to charge up to 4 hours. If "Network Standby" (p.121) in the "Setup" menu is set to "On", it continues to charge without limit.



• Disconnect the iPod from the USB jack when it is not in use.



Playback of iPod content

Follow the procedure below to operate the iPod contents and start playback.

You can control the iPod with the menu displayed on the TV screen.

Press USB to select "USB" as the input source.

The browse screen is displayed on the TV.





- If playback is ongoing on your iPod, the playback screen is displayed.
- 2 Use the cursor keys to select an item and press ENTER.

If a song is selected, playback starts and the playback screen is displayed.





- · To return to the previous screen, press RETURN.
- To operate the iPod manually to select content or control playback, switch to the simple play mode (p.75).

Browse screen



Status indicators

Display the current shuffle/repeat settings (p.76) and playback status (such as play/pause).

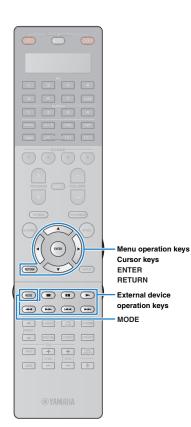
- 2 List name
- Contents list

Displays the list of iPod content. Use the cursor keys (\triangle/∇) to select an item and press ENTER to confirm the selection.

- 4 Item number/total
- Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection.

Menu	Function	
1 Page Up	Moves to the previous/next page of the list.	
1 Page Down	— Moves to the previous/next page of the list.	
10 Pages Up	Moves 10 pages forward/backward.	
10 Pages Down		
Return	Returns to the higher-level list.	
Now Playing	Moves to the playback screen.	
Screen Off	Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.	



Playback screen



Status indicators

Display the current shuffle/repeat settings (p.76) and playback status (such as play/pause).

Playback information

Displays the artist name, album name, song title, and elapsed/remaining

Use the cursor keys (\triangle/∇) to select scrollable information.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function
	-	Resumes playback from pause.
		Stops playback.
		Stops playback temporarily.
Play Control	₩	- Skips forward/backward.
	▶₩	
	**	Searches forward/backward (by holding down).
Browse		Moves to the browse screen.
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.



· You can also use the external device operation keys on the remote control to control playback.

Operating the iPod itself or remote control (simple play)

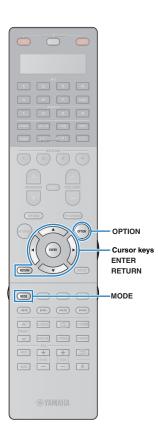
Press MODE to switch to the simple play mode.

The TV menu screen turns off and iPod operations are enabled.

To display the TV menu screen, press MODE again.

Operate your iPod itself or the remote control to start playback.

Operational remote control keys	Function
Cursor keys	Select an item.
ENTER	Confirms the selection.
RETURN	Returns to the previous screen.
<u>►</u>	Starts playback or stops playback temporarily.
	Stops playback.
external device operation keys	- Skips forward/backward.
↔	Searches forward/backward (by holding down).



Shuffle/repeat settings

You can configure the shuffle/repeat settings of your iPod.



- During simple play, configure the shuffle/repeat settings directly on your iPod or press MODE to display the TV menu screen and then follow the procedure below.
- When "USB" is selected as the input source, press OPTION.
- Use the cursor keys to select "Shuffle" (Shuffle) or "Repeat" (Repeat) and press ENTER.



- To return to the previous screen during menu operations, press RETURN.
- · Texts in parentheses denote indicators on the front display.
- 3 Use the cursor keys (
 10 to select a setting.

Item	Setting	Function
Shuffle (Shuffle)	Off (Off)	Turns off the shuffle function.
	Songs (Songs)	Plays back songs in random order. "" appears in the TV screen.
	Albums (Albums)	Plays back albums in random order. "X" appears in the TV screen.
Repeat (Repeat)	Off (Off)	Turns off the repeat function.
	One (One)	Plays back the current song repeatedly. "" appears in the TV screen.
	All (All)	Plays back all songs repeatedly. "" appears in the TV screen.

4 To exit from the menu, press OPTION.



Playing back music stored on a USB storage device

You can play back music files stored on a USB storage device on the unit. Refer to the instruction manuals for the USB storage device for more information.

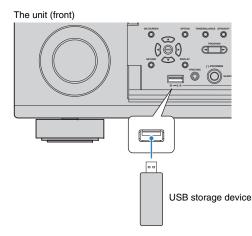
The unit supports USB mass storage class devices (FAT16 or FAT32 format).



- The unit supports WAV (PCM format only), MP3, WMA, MPEG-4 AAC and FLAC files (1- or 2-channel audio only).
- The unit is compatible with sampling rate of up to 192 kHz for WAV and FLAC files, and 48 kHz for other files.
- Some features may not be compatible, depending on the model or manufacturer of the USB storage device.
- Digital Rights Management (DRM) contents cannot be played back.
- · The unit does not support a USB hub.

Connecting a USB storage device

1 Connect the USB storage device to the USB jack.







 If the USB storage device contains many files, it may take time to load the them. In this case, "Loading..." appears in the front display.



- Stop playback of the USB storage device before disconnect it from the USB jack.
- Disconnect the USB storage device from the USB jack when it is not in use.
- · You cannot connect the PC to the USB jack of the unit.
- Connect a USB memory device directly to the USB jack of the unit. Do not use extension cables.

Playback of USB storage device contents

Follow the procedure below to operate the USB storage device contents and start playback.

You can control the USB memory device with the menu displayed on the TV screen.

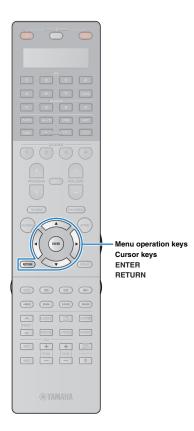
Press USB to select "USB" as the input source.

The browse screen is displayed on the TV.





 If playback is ongoing on your USB storage device, the playback screen is displayed.



2 Use the cursor keys to select an item and press ENTER.

If a song is selected, playback starts and the playback screen is displayed.





- To return to the previous screen, press RETURN.
- · Files not supported by the unit cannot be selected.
- If the unit detects a series of unsupported files (such as images and hidden files) during playback, playback stops automatically.

Browse screen



Status indicators

Display the current shuffle/repeat settings (p.79) and playback status (such as play/pause).

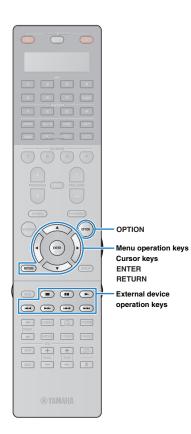
- 2 List name
- Contents list

Displays the list of USB storage device contents. Use the cursor keys (\triangle/∇) to select an item and press ENTER to confirm the selection.

- 4 Item number/total
- 6 Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection.

Menu	Function	
1 Page Up	Moves to the previous/next page of the list.	
1 Page Down	— Moves to the previous/next page of the list.	
10 Pages Up	Moves 10 pages forward/backward.	
10 Pages Down		
Return	Returns to the higher-level list.	
Now Playing	Moves to the playback screen.	
Screen Off	Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.	



Playback screen



Status indicators

Display the current shuffle/repeat settings (p.79) and playback status (such as play/pause).

Playback information

Displays the artist name, album name, song title, and elapsed time. Use the cursor keys (\triangle/∇) to select scrollable information.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function
		Resumes playback from pause.
		Stops playback.
Play Control	••	Stops playback temporarily.
	H	- Skips forward/backward.
	>>	
Browse		Moves to the browse screen.
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.



 You can also use the external device operation keys (►, ■, ■, ►►) on the remote control to control playback.

Shuffle/repeat settings

You can configure the shuffle/repeat settings for playback of USB storage device contents.

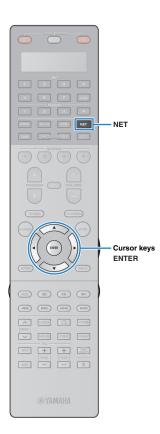
- When "USB" is selected as the input source, press OPTION.
- Use the cursor keys to select "Shuffle" (Shuffle) or "Repeat" (Repeat) and press ENTER.



- To return to the previous screen during menu operations, press RETURN.
- · Texts in parentheses denote indicators on the front display.
- Use the cursor keys $(\triangleleft/\triangleright)$ to select a setting.

Item	Setting	Function
	Off (Off)	Turns off the shuffle function.
Shuffle (Shuffle)	On (On)	Plays back songs in the current album (folder) in random order. """ appears on the TV screen.
Repeat (Repeat)	Off (Off)	Turns off the repeat function.
	One (One)	Plays back the current song repeatedly. "ÇD" appears on the TV screen.
	All (All)	Plays back all songs in the current album (folder) repeatedly. """ appears on the TV screen.

To exit from the menu, press OPTION.



Playing back music stored on media servers (PCs/NAS)

You can play back music files stored on your PC or DLNA-compatible NAS on the unit.



- To use this function, the unit and your PC must be connected to the same router (p.46). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in "Network" (p.129) in the "Information" menu.
- The unit supports playback of WAV (PCM format only), MP3, WMA, MPEG-4 AAC and FLAC files (1- or 2-channel audio only).
- . The unit is compatible with sampling rates of up to 192 kHz for WAV and FLAC files, and 48 kHz for other files
- To play back FLAC files, you need to install server software that supports sharing of FLAC files via DLNA on your PC or use a NAS that supports FLAC files.

Media sharing setup

To play back music files stored on your PC or DLNA-compatible NAS, first you need to configure the media sharing setting on each music server.

- For a PC with Windows Media Player installed
- Check that Windows Media Player 11 or later is installed on your PC.
- In the media sharing settings, enable media sharing and allow media to be shared with the device.
- For a PC or a NAS with other DLNA server software installed

Refer to the instruction manual for the device or software and configure the media sharing settings.

Playback of PC music contents

Follow the procedure below to operate the PC music contents and start playback.

You can control the PC/NAS with the menu displayed on the TV screen.

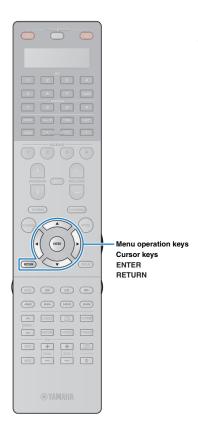
Press NET repeatedly to select "SERVER" as the input source.

The browse screen is displayed on the TV.





- If playback of a music file selected from the unit is ongoing on your PC, the playback screen is displayed.
- Use the cursor keys to select a music server and press ENTER.



Use the cursor keys to select an item and press ENTER.

If a song is selected, playback starts and the playback screen is displayed.





- To return to the previous screen, press RETURN.
- · Files not supported by the unit cannot be selected.
- If the unit detects a series of unsupported files (such as images and hidden files) during playback, playback stops automatically.

Browse screen



Status indicators

Display the current shuffle/repeat settings (p.82) and playback status (such as play/pause).

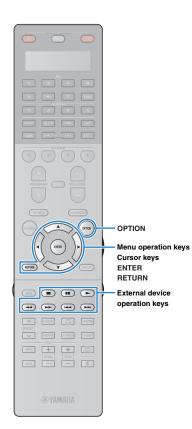
- ② List name
- Contents list

Displays the list of PC content. Use the cursor keys (\triangle/∇) to select an item and press ENTER to confirm the selection.

- Item number/total
- 6 Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection.

Menu	Function	
1 Page Up	Moves to the previous/next page of the list.	
1 Page Down	— Moves to the previous/next page of the list.	
10 Pages Up	Moves 10 pages forward/backward.	
10 Pages Down	- Moves 10 pages forward/backward.	
Return	Returns to the higher-level list.	
Now Playing	Moves to the playback screen.	
Screen Off	Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.	



Playback screen



Status indicators

Display the current shuffle/repeat settings (p.82) and playback status (such as play/pause).

Playback information

Displays the artist name, album name, song title, and elapsed time. Use the cursor keys (\triangle/∇) to select scrollable information.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function
	>	Resumes playback from pause.
		Stops playback.
Play Control	***	Stops playback temporarily.
	H	- Skips forward/backward.
	>>	
Browse		Moves to the browse screen.
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.



- You can also use the external device operation keys (►, ■, ■, III, III, IIII) on the remote control to control playback.
- You can also use a DLNA-compatible Digital Media Controller (DMC) to control playback. For details, see "DMC Control" (p.101).

Shuffle/repeat settings

You can configure the shuffle/repeat settings for the playback of PC music content.

- 1 When "SERVER" is selected as the input source, press OPTION.
- Use the cursor keys to select "Shuffle" (Shuffle) or "Repeat" (Repeat) and press ENTER.

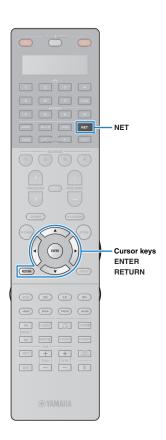


- To return to the previous screen during menu operations, press RETURN.
- · Text in parentheses denotes indicators on the front display.

3 Use the cursor keys () to select a setting.

Item	Setting	Function
	Off (Off)	Turns off the shuffle function.
Shuffle (Shuffle)	On (On)	Plays back songs in the current album (folder) in random order. "文" appears on the TV screen.
	Off (Off)	Turns off the repeat function.
Repeat (Repeat)	One (One)	Plays back the current song repeatedly. " "appears on the TV screen.
	All (All)	Plays back all songs in the current album (folder) repeatedly. "" appears on the TV screen.

4 To exit from the menu, press OPTION.



Listening to Internet radio

You can listen to Internet radio stations from all over the world.



- To use this function, the unit must be connected to the Internet (p.46). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in "Network" (p.129) in the "Information" menu.
- · You may not be able to receive some Internet radio stations.
- The unit uses the vTuner Internet radio station database service.
- This service may be discontinued without notice.

Press NET repeatedly to select "NET RADIO" as the input source.

The browse screen is displayed on the TV.



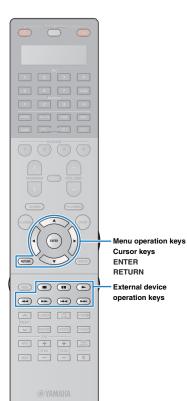
Use the cursor keys to select an item and press ENTER.

If an Internet radio station is selected, playback starts and the playback screen is displayed.





• To return to the previous screen, press RETURN.



Browse screen



- Playback indicator
- ② List name
- Contents list

Displays the list of Internet radio content. Use the cursor keys (\triangle/∇) to select an item and press ENTER to confirm the selection.

- 4 Item number/total
- 6 Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection.

Menu	Function		
1 Page Up	Moves to the previous/next page of the list.		
1 Page Down	— intoves to the previous/next page of the list.		
10 Pages Up	Moves 10 pages forward/backward.		
10 Pages Down	— Moves 10 pages forward/backward.		
Return	Returns to the higher-level list.		
Now Playing	Moves to the playback screen.		
Screen Off	Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.		



 You can register your favorite Internet radio stations to the "Bookmarks" folder by selecting "NET RADIO" as the input source on the unit and then accessing the following website with the web browser on your PC. To use this feature, you need the unit's vTuner ID and your e-mail address in order to create your personal account. You can find the vTunerID (MAC address of the unit) in "Network" (p.129) in the "Information" menu.

http://yradio.vtuner.com/

Playback screen



- Playback indicator
- 2 Playback information

Displays the station name, album name, song title, and elapsed time. Use the cursor keys (\triangle/∇) to select scrollable information.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection. To close the submenu, press RETURN.

Menu	Submenu	Function
Play Control		Stops playback.
Browse		Moves to the browse screen.
Screen Off		Closes the screen display and shows the background. Press one of the menu

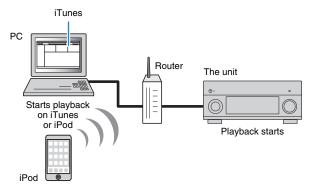
operation keys to redisplay it.



- You can also use the external device operation key (
) on the remote control to stop playback.
- Some information may not be available depending on the station.

Playing back iTunes/iPod music via a network (AirPlay)

The AirPlay function allows you to play back iTunes/iPod music on the unit via network.





 To use this function, the unit and your PC or iPod must be connected to the same router (p.46). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in "Network" (p.129) in the "Information" menu.

AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later. (as of June 2013)

Playback of iTunes/iPod music contents

Follow the procedure below to play back iTunes/iPod music contents on the unit.

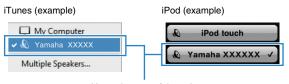
Turn on the unit, and start iTunes on the PC or display the playback screen on the iPod.

If the iTunes/iPod recognizes the unit, the AirPlay icon () appears.





- If the icon does not appear, check whether the unit and PC/iPod are connected to the router properly.
- 2 On the iTunes/iPod, click (tap) the AirPlay icon and select the unit (network name of the unit) as the audio output device.

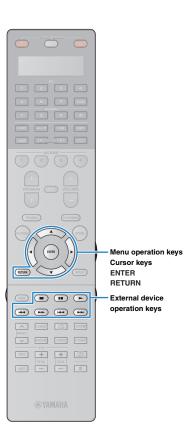


Network name of the unit

Select a song and start playback.

The unit automatically selects "AirPlay" as the input source and starts playback.

The playback screen is displayed on the TV.





- You can turn on the unit automatically when starting playback on iTunes or iPod by setting "Network Standby" (p.121) in the "Setup" menu to "On".
- You can edit the network name (the unit's name on the network) displayed on iTunes/iPod in "Network Name" (p.121) in the "Setup" menu.
- If you select the other input source on the unit during playback, playback on the iTunes/iPod stops automatically.
- You can adjust the unit's volume from the iTunes/iPod during playback. To disable volume controls from iTunes/iPod, set "Volume Interlock" (p.100) in the "Input" menu to "Off".

Caution

 When you use iTunes/iPod controls to adjust volume, the volume may be unexpectedly loud. This could result in damage to the unit or speakers. If the volume suddenly increases during playback, stop playback on the iTunes/iPod immediately.

Playback screen



- Playback indicator
- Playback information

Displays the artist name, album name, song title, and elapsed/remaining time.

Use the cursor keys (\triangle/∇) to select scrollable information.

Operation menu

Press the cursor key (\triangleright) and then use the cursor keys (\triangle/∇) to select an item. Press ENTER to confirm the selection.

To close the submenu, press RETURN.

Menu	Submenu	Function
monu	Cubinona	1 direction
Play Control		Resumes playback from pause.
	••	Stops playback temporarily.
	►►	- Skips forward/backward.
Screen Off		Closes the screen display and shows the background. Press one of the menu operation keys to redisplay it.

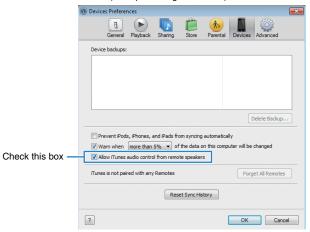


 You can also use the external device operation keys (►, ■, ■, , ►►) on the remote control to control playback.



 To control iTunes playback with the remote control of the unit, you need to configure the iTunes preferences to enable iTunes control from remote speakers in advance.

iTunes (example of English version)



Playing back videos/audio in multiple rooms (multi-zone)

The multi-zone function allows you to play back different input sources in the room where the unit is installed (main zone) and in other rooms (Zone2, Zone3 and Zone4).

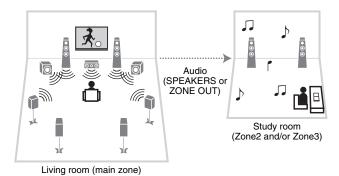
For example, while you are watching TV in the living room (main zone), another person can listen to PC music in the study room (Zone2), and another can listen to radio in the guest room (Zone3) and play DVD in the kitchen (Zone4).

- Video/audio signals that can be output to each zone vary depending on how you connect the device in each zone to the unit's output jacks. For details, see "Multi-zone output" (p.155).
- Since there are many possible ways to use the unit in a multi-zone configuration, we recommend that you consult with your nearest authorized Yamaha dealer or service center about the multi-zone connections that best meet your requirements.

Multi-zone configuration examples

Enjoying music in other rooms

You can enjoy music using speakers placed in other rooms.



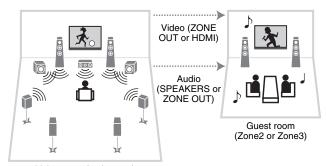
Connections

Speakers (connecting to the unit directly): p.32 Speakers (using an external amplifier): p.88

Enjoying videos/music in other rooms

You can enjoy videos/music using TVs placed in other rooms.

☐ Enjoying videos/music using a TV and speakers



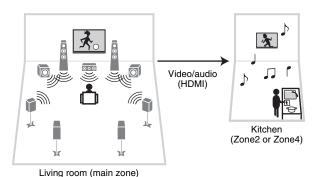
Living room (main zone)

Connections

TV (for analog video playback): p.89 TV (for digital video playback): p.90

Speakers (connecting to the unit directly): p.32 Speakers (using an external amplifier): p.88

☐ Enjoying videos/music using only a TV



Connection

TV: p.90

Preparing the multi zone system

Connect the device that will be used in other rooms to the unit.

Caution

- Remove the unit's power cable from the AC wall outlet before connecting speakers or an external amplifier.
- Ensure that the core wires of the speaker cable do not touch one another or come into contact with the unit's metal parts. Doing so may damage the unit or the speakers. If the speaker cables short circuit, "Check SP Wires" will appear on the front display when the unit is turned on.

Connecting speakers to play back audio

Connect speakers to play back audio in Zone2 or Zone3. The connection method varies depending on the amplifier being used (the unit or an external amplifier).

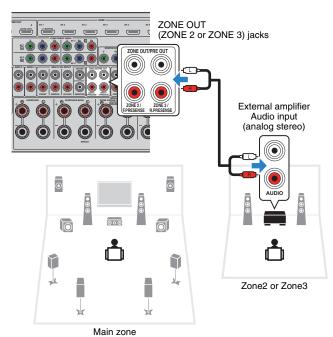
☐ Using the unit's internal amplifier

Connect the speakers placed in Zone2 or Zone3 to the unit with speaker cables. For details, see "Connecting Zone2/3 speakers" (p.32).

□ Using an external amplifier

Connect the external amplifier placed in Zone2 or Zone3 to the unit with a stereo pin cable and connect speakers to the external amplifier.

The unit (rear)





(RX-V3075 only)

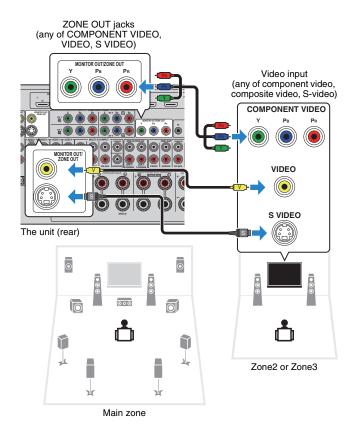
You cannot use an external amplifier for Zone2 when the ZONE OUT/PRE OUT jacks are set to output front presence channel audio in "Power Amp Assign" (p.111) in the "Setup" menu. Also, you cannot use an external amplifier for Zone3 when the ZONE OUT/PRE OUT jacks are configured to output rear presence channel audio.

Connecting a video monitor to play back analog videos

Connect a video monitor to watch analog videos at Zone2 or Zone3. Depending on the video input jacks available on your video monitor, choose one of the video connection methods.



- The video conversion between the analog video jacks does not work for multi-zone video output. To watch videos played back on a video device on the zone video monitor, you need to connect the video monitor to the unit in the same way as the video device. For example, if you want to watch videos input from the DVD player via a component video cable, connect the video monitor to the MONITOR OUT/ZONE OUT (COMPONENT VIDEO) jacks with a component video cable.
- On-screen operations are not available for Zone3 when "HDMI OUT2 Assign" (p.124) in the "Setup" menu is set to "Zone2".



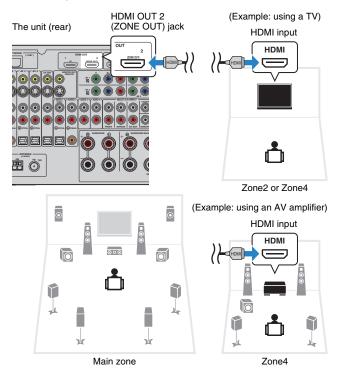
To assign the MONITOR OUT/ZONE OUT jacks to the video monitor for Zone2 or Zone3, set "Monitor Out Assign" (p.123) in the "Setup" menu to "7one2" or "7one3"

Connecting an HDMI-compatible device to play back videos/audio

Connect an HDMI-compatible device (such as a TV) to play back videos/audio at Zone2 or Zone4. If you connect an AV amplifier, you can enjoy multi-channel playback in another room (Zone4).



- To watch videos played back on a video device at Zone2 or Zone4, you need to connect the video device to the unit with an HDMI cable (p.41).
- · We recommend that you disable HDMI Control on the playback devices connected
- · On-screen operations are not available for Zone4.



To assign the HDMI OUT 2 (ZONE OUT) jack to Zone2 or Zone4, set "HDMI OUT2 Assign" (p.124) in the "Setup" menu to "Zone2" or "Zone4".



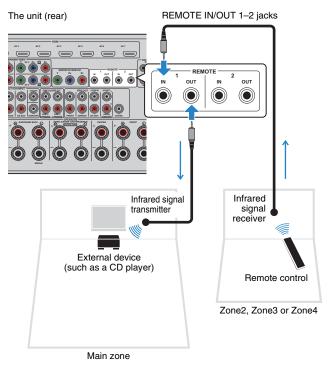
- When the HDMI OUT 2 (ZONE OUT) jack is assigned to Zone2, you can enable/disable the audio output from the HDMI OUT 2 jack by setting "Audio Output" (p.124) in the "Setup" menu to "On" or "Off" (default).
- You can also use speakers placed in Zone2 to output audio (p.32).
- Videos/audio interruptions may happen in another zone when any of the following operations is performed.
- Tuning on/off a TV connected to the unit via HDMI or switching the TV input
- Enabling/disabling a zone output or selecting its input source
- Changing the sound mode or audio settings (such as "Extended Surround")

Operating the unit from another room (remote connection)

You can operate the unit and external devices from Zone2, Zone3 or Zone4 using the supplied remote control if you connect an infrared signal receiver/emitter to the unit's REMOTE IN/OUT 1 or REMOTE IN/OUT 2 jacks.

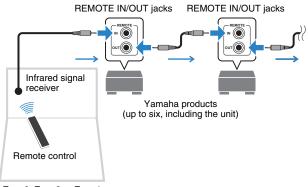


· To operate external devices with the supplied remote control, you must register a remote control code for each device before using (p.133).



Remote connections between Yamaha products

An infrared signal transmitter is not required if you are using Yamaha products that support remote connections, as the unit does. You can transmit remote control signals by connecting the REMOTE IN/OUT jacks with monaural mini-jack cables and an infrared signal receiver.



Zone2, Zone3 or Zone4



Controlling Zone2, Zone3 or Zone4

Press ZONE repeatedly to select a zone.

Each time you press the key, the zone to be operated switches.

Selected zone (turns off when main zone is selected)



Press RECEIVER ().

Each time you press the key, the selected zone is enabled or disabled.

When zone audio output is enabled, the corresponding zone indicator lights up in the front display.

Use the input selection keys to select an input source.



- · Video/audio signals that can be output to each zone vary depending on how you connect the device in each zone to the unit's output jacks. For details, see "Multi-zone output" (p.155).
- You cannot select USB and network sources exclusively for each zone. For example, if you select "SERVER" for Zone2 when "USB" is selected for the main zone, the input source for the main zone also switches to "SERVER".

Start playback on the external device or select a radio station.

Refer to the instruction manual for the external device.

For details on the following operations, see the corresponding pages.

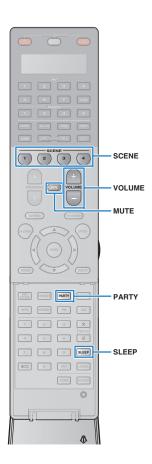
- Listening to FM/AM radio (p.70)
- Playing back iPod music (p.73)
- Playing back music stored on a USB storage device (p.77)
- Playing back music stored on media servers (PCs/NAS) (p.80)
- Listening to Internet radio (p.83)
- Playing back iTunes/iPod music via a network (AirPlay) (p.85)



- You can also use the web control to control Zone2, Zone3 or Zone4. For details on the web control function, refer to "Supplement for Web Control" on the CD-ROM.
- · AirPlay is available in Zone2 and Zone3 only when AirPlay playback is ongoing in the main zone.

Caution

• To avoid unexpected noise, never play back DTS-CDs in Zone2, Zone3 or Zone4.



Other operations for Zone2, Zone3 or Zone4

The following functions are also available when the zone you want to operate is enabled.

Adjusting the volume (for Zone2 and Zone3 only)

Press VOLUME or MUTE.

Selecting the input source and settings at once (SCENE)

Press SCENE.



· To register the current settings (input source, volume and tone control) to a scene, hold down the desired SCENE key until "SET Complete" appears on the front display. (Only an input source can be registered for Zone4.)

Setting the sleep timer

Press SLEEP repeatedly to set the time (120 min, 90 min, 60 min, 30 min, off).

Adjusting the high-/low-frequency range of sounds (for Zone2 and Zone3 only)

- 1) Press ZONE CONTROL on the front panel to select the zone to be operated.
- 2 Press TONE/BALANCE repeatedly to select "Treble" or "Bass".
- ③ Press PROGRAM to make an adjustment.

Setting range

-10.0 dB to +10.0 dB (2.0 dB increments)

Default

0.0 dB

Adjusting the front speaker balance (for Zone2 and Zone3 only)

- 1 Press ZONE CONTROL on the front panel to select the zone to be operated.
- ② Press TONE/BALANCE repeatedly to select "Balance".
- 3 Press PROGRAM to make an adjustment.

Enjoying the same source in multiple rooms (party mode)

The party mode allows you to play back in all zones the same music that is being played back in the main zone. During the party mode, stereo playback is automatically selected for all zones. Utilize this function when you want to use main zone music as background music for a house party.

Press PARTY.

Each time you press the key, the party mode is turned on or

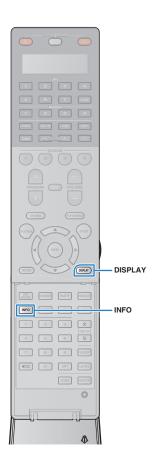
When the party mode is turned on, "PARTY" lights up in the front display.



• You can select the zones to be included in the party mode in "Party Mode Set" (p.124) in the "Setup" menu.



· Zone4 output is available only when an HDMI input is selected in the main



Viewing the current status

Switching information on the front display

1 Press INFO.

Each time you press the key, the displayed item changes.



About 3 seconds later, the corresponding information for the displayed item appears.





 Available items vary depending on the selected input source. The displayed item can also be applied separately to each input source group.

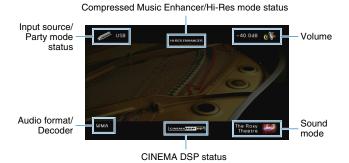
Input source group	Item
AV 1–7 V-AUX AUDIO 1–4 PHONO	DSP Program (sound mode name), Audio Decoder (decoder name*)
TUNER	DSP Program (sound mode name), Audio Decoder (decoder name*)
USB SERVER	Song (song title), Artist (artist name), Album (album name), DSP Program (sound mode name), Audio Decoder (decoder name*)
AirPlay	* During simple playback of iPod: DSP Program (sound mode name), Audio Decoder (decoder name*)
NET RADIO	Song (song title), Album (album name), Station (station name), DSP Program (sound mode name), Audio Decoder (decoder name*)

^{*} The name of the audio decoder currently activated is displayed. If no audio decoder is activated, "Decoder Off" appears.

Viewing the status information on the TV

Press DISPLAY.

The following information is displayed on the TV.



2 To close the information display, press DISPLAY.

Configuring playback settings for different playback sources (Option menu)

You can configure separate playback settings for different playback sources. This menu is available on the front panel (or on the TV screen), allowing you to easily configure settings during playback.

1 Press OPTION.



Front display



TV screen

2 Use the cursor keys to select an item and press ENTER.



- \bullet To return to the previous screen during menu operations, press RETURN.
- 3 Use the cursor keys (<1/>) to select a setting.
- 4 To exit from the menu, press OPTION.

Option menu items



- · Available items vary depending on the selected input source.
- · Text in parentheses denotes indicators on the front display.

Item		Function	Page
Tone Control (Tone Control)		Adjusts the high-frequency range and low-frequency range of sounds.	96
Adaptive DRC (Adaptive DRC)		Sets whether the dynamic range (from maximum to minimum) is automatically adjusted when the volume is adjusted.	96
CINEMA DSP 3D (CINEMA DSP 3D		Enables/disables CINEMA DSP 3D.	96
Dialogue Adjust	Dialogue Level (Dialog Lvl)	Adjusts the volume of dialogue sounds.	96
(Dialog Adjust)	Dialogue Lift (Dialog Lift)	Adjusts the perceived height of dialogue sounds.	96
Extended Surround		Selects how to play back 5.1- to 7.1-channel sources when surround back speakers are used.	97
Volume Trim (Volume Trim)	Input Trim (In.Trim)	Corrects volume differences between input sources.	97
	Subwoofer Trim (SW.Trim)	Fine-adjusts the subwoofer volume.	97
Enhancer	Enhancer (Enhancer)	Enables/disables Compressed Music Enhancer.	97
Enhancer (Enhancer)	Hi-Res Mode (HiRes Mode)	Enables/disables the high-resolution mode (for enhancing the quality of uncompressed digital audio).	97
Video Mode (Video Mode)		Enables/disables the video signal processing settings configured in the "Setup" menu.	98
Video Adjustme (Video Adjust)	nt	Selects a video adjustment setting from presets.	98
Audio Select (Audio Select)		Selects the audio input jack to use when more than one audio connection is made for one input source.	98
FM Mode (FM Mode)		Switches between stereo and monaural for FM radio reception.	98
Shuffle (Shuffle)		Configures the shuffle setting for the iPod (p.76), USB storage device (p.79), or media server (p.82).	_
Repeat (Repeat)		Configures the repeat setting for the iPod (p.76), USB storage device (p.79), or media server (p.82).	_

Tone Control (Tone Control)

Adjusts the high-frequency range (Treble) and low-frequency range (Bass) of sounds.

Choices

Treble (Treble), Bass (Bass)

Setting range

-6.0 dB to Bypass (Bypass) to +6.0 dB, 0.5 dB increments

Default

Bypass (Bypass)



· If you set an extreme value, sounds may not match those from other channels.

Adjusting with the front panel controls

- ① Press TONE/BALANCE repeatedly to select "Treble" or "Bass".
- 2 Press PROGRAM to make an adjustment.

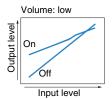
Adaptive DRC (Adaptive DRC)

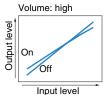
Sets whether the dynamic range (from maximum to minimum) is automatically adjusted when the volume level is adjusted. When it is set to "On", it is useful for listening to playback at a low volume at night.

Settings

On (On)	Automatically adjusts the dynamic range.
Off (Off) (default)	The dynamic range is not automatically adjusted.

If "On" is selected, the dynamic range becomes narrow at a low volume and wide at a high volume.





CINEMA DSP 3D Mode (CINEMA DSP 3D)

Enables/disables CINEMA DSP HD³ (RX-V3075) or CINEMA DSP 3D (RX-V2075) (p.65). If this function is set to "On", CINEMA DSP HD³/CINEMA DSP 3D functions with the selected sound programs (except 2ch Stereo and 9ch Stereo).

Settings

On (On) (default)	Enables CINEMA DSP HD³/CINEMA DSP 3D.
Off (Off)	Disables CINEMA DSP HD3/CINEMA DSP 3D.

■ Dialogue Adjust (Dialog Adjust)

Adjusts the volume or perceive height of dialogue sounds.

☐ Dialogue Level (Dialog Lvl)

Adjusts the volume of dialogue sounds. If dialogue sounds cannot be heard clearly, you can turn up its volume by increasing this setting.

Setting range

0 to 3

Default

0

☐ Dialogue Lift (Dialog Lift)

Adjusts the perceived height of dialogue sounds. If the dialogue sounds as if it is coming from below the TV screen, you can raise its perceived height by increasing this setting.



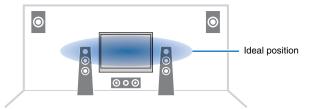
- This setting is available only when one of the following conditions is met.
- One of the sound programs (except for 2ch Stereo and 9ch Stereo) is selected when front presence speakers are used.
- Virtual Presence Speaker (VPS) (p.65) is working.
 (You may hear dialogue sounds from the surround speakers depending on the listening position.)

Setting range

0 to 5 (The bigger the value the higher the position)

Default

0



Extended Surround (EXTD Surround)

Selects how to play back 5.1- to 7.1-channel sources when surround back speakers are used.

Settings

Auto (Auto) (default)	Automatically selects the most suitable decoder if signals that contain surround back channel signals are input, and reproduces the signals in 6.1- or 7.1-channel. If two surround back speakers are connected, the unit reproduces the 5.1-channel signals in 7.1-channel.
■PLIIx Movie (■PLIIxMo)	Always reproduces signals in 7.1-channel using the Dolby Pro Logic IIx Movie decoder. This setting is available only when two surround back speakers are connected.
■PLIIx Music (■PLIIxMu)	Always reproduces signals in 6.1- or 7.1-channel using the Dolby Pro Logic IIx Music decoder. This setting is available only when one or two surround back speakers are connected.
EX/ES (EX/ES)	Automatically selects the Dolby EX or DTS-ES decoder, and reproduces signals in 6.1- or 7.1-channel.
Off (Off)	Always reproduces signals in their original channels. (Even when DTS-ES or Dolby Digital Surround EX signal is input, the unit reproduces the signal in 5.1-channel.)



· Some early Dolby Digital Surround EX or DTS-ES sources do not contain a flag for reproducing surround back channel. We recommend you set "Extended Surround" to "MPLIIx Movie" or "EX/ES" when playing back those sources.

Volume Trim (Volume Trim)

Fine-adjusts volume difference between input sources or subwoofer volume.

☐ Input Trim (In.Trim)

Corrects volume differences between input sources. If you are bothered by volume differences when switching between input sources, use this function to correct it.



· This setting is applied separately to each input source.

Setting range

-6.0 dB to +6.0 dB (0.5 dB increments)

Default

0.0 dB

☐ Subwoofer Trim (SW.Trim)

Fine-adjusts the subwoofer volume.

Setting range

-6.0 dB to +6.0 dB (0.5 dB increments)

Default

0.0 dB

Enhancer (Enhancer)

Enables/disables Compressed Music Enhancer and the high-resolution mode.

☐ Enhancer (Enhancer)

Enables/disables Compressed Music Enhancer (p.69).



- · This setting is applied separately to each input source.
- · You can also use ENHANCER on the remote control to enable/disable Compressed Music Enhancer

Settings

Off (Off)	Disables Compressed Music Enhancer.
On (On)	Enables Compressed Music Enhancer.

Default

TUNER, USB, (network sources): On (On) Others: Off (Off)



· Compressed Music Enhancer does not work on signals whose sampling rate is over 48 kHz.

☐ Hi-Res Mode (HiRes Mode)

Enables/disables the high-resolution mode when "Enhancer" is set to "On". If this function is set to "On", you can enhance the quality of uncompressed digital audio (such as 2-channel PCM and FLAC) using Compressed Music Enhancer.

Settings

Off (Off)	Disables the high-resolution mode.
On (On) (default)	Enables the high-resolution mode.

Video Mode (Video Mode)

Enables/disables the video signal processing (resolution, aspect ratio and video adjustments) settings configured in "Processing" (p.117) in the "Setup" menu.

Settings

Processing (Processing)	Enables the video signal processing.
Direct (Direct) (default)	Disables the video signal processing.

Video Adjustment (Video Adjust)

Selects a video adjustment setting from presets you have configured in "Adjustment" (p.118) in the "Setup" menu.



· This setting is applied separately to each input source.

Settings

1 to 6

Audio Select (Audio Select)

Selects the audio input jack to use when more than one audio connection is made for one input source.



· This setting is applied separately to each input source.

Settings

Auto (Auto) (default)	Automatically selects the audio input jack in the following priority order. 1. HDMI input 2. Digital input (COAXIAL or OPTICAL) 3. Analog input (AUDIO)
HDMI (HDMI)	Always selects HDMI input. No sounds are produced when no signals are input through the HDMI jack.
Coax/Opt (Coax/Opt)	Always selects digital input (COAXIAL or OPTICAL). No sounds are produced when no signals are input through the COAXIAL or OPTICAL jack.
Analog (Analog)	Always selects analog input (AUDIO). No sounds are produced when no signals are input through the AUDIO jacks.

FM Mode (FM Mode)

Switches between stereo and monaural for FM radio reception.

Settings

Stereo (Stereo) (default)	Receives FM radio in stereo sounds.
Mono (Mono)	Receives FM radio in monaural sounds.

CONFIGURATIONS

Configuring input sources (Input menu)

You can change the input source settings using the TV screen.

- Press ON SCREEN.
- Use the cursor keys to select "Input" and press ENTER.



Use the cursor keys $(\langle | \rangle)$ to select an input source to be configured and press the cursor key (\triangle).



The input source of the unit also changes.



• You can still switch the input source by using cursor keys (
| ✓ | D | after Step 3.

Use the cursor keys (\triangle/∇) to select an item and press ENTER.





- To return to the previous screen during menu operations, press RETURN.
- Use the cursor keys to select a setting and press ENTER.
- To exit from the menu, press ON SCREEN.

Input menu items



· Available items vary depending on the selected input source.

Item	Function	Page
Rename/Icon Select	Changes the input source name and icon.	100
Decoder Mode	Sets the format of digital audio playback to DTS.	100
Volume Interlock	Enables/disables volume controls from iTunes/iPod via AirPlay.	100
Video Out	Selects a video to be output with the audio input source.	100
DMC Control	Selects whether to allow a DLNA-compatible Digital Media Controller (DMC) to control playback.	101

Rename/Icon Select

Changes the input source name and icon displayed on the front display or TV screen.

Input sources

AV 1-7, V-AUX, AUDIO 1-4, PHONO, USB, MULTI CH

Setup procedure

Use the cursor keys () to select a template and press the cursor key (
∇).





- You cannot change the template or icon for "USB" when an iPod is connected.
- 2 Use the cursor keys () to select an icon and press the cursor key (
 ∇).
- Press ENTER to enter the name edit screen.
- 4 Use the cursor keys and ENTER to rename and select "ENTER" to confirm the entry.





- . To clear the entry, select "CLEAR".
- 5 Use the cursor keys to select "OK" and press ENTER.



- To restore the default setting, select "RESET".
- To exit from the menu, press ON SCREEN.

Decoder Mode

Sets the format of digital audio playback to "DTS".

For example, if the unit does not detect DTS audio and outputs noise, set "Decoder Mode" to "DTS".

Input sources

AV 1-7, V-AUX, AUDIO 1-4 (available only when any audio digital input jack is assigned)

Settings

Auto (default)	Automatically selects an audio format to match the input audio signal.
DTS	Selects DTS only. (Other audio signals are not reproduced.)

Volume Interlock

Enables/disables volume controls from iTunes/iPod via AirPlay.

Input sources

AirPlay

Settings

Off	Disables volume controls from iTunes/iPod.
Limited (default)	Enables volume controls from iTunes/iPod within the limited range (-80 dB to 0 dB and mute).
Full	Enables volume controls from iTunes/iPod in the full range (-80 dB to +16.5 dB and mute).

■ Video Out

Selects a video to be output with the audio input source.

Input sources

TUNER, (network sources), USB, MULTI CH

Settings

Off	Does not output video.
AV 1-7, V-AUX	Outputs video input through the corresponding video input jacks.

Default

USB: V-AUX

Others: Off

DMC Control

Selects whether to allow DLNA-compatible Digital Media Controller (DMC) to control playback.

Input source

SERVER

Settings

Disable	Does not allow DMCs to control playback.
Enable (default)	Allows DMCs to control playback.



A Digital Media Controller (DMC) is a device that can control other network devices through the network.
 When this function is enabled, you can control playback of the unit from DMCs (such as Windows Media Player 12) on the same network.

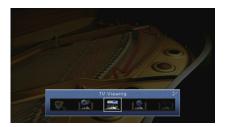
Configuring the SCENE function (Scene menu)

You can change the settings of the SCENE function (p.62) using the TV screen.

- Press ON SCREEN.
- 2 Use the cursor keys to select "Scene" and press ENTER.



3 Use the cursor keys (
| √>) to select a scene to be configured and press the cursor key (△).



4 Use the cursor keys (\triangle / ∇) to select an item and press ENTER.



- 5 Use the cursor keys and ENTER to change the setting.
- **6** To exit from the menu, press ON SCREEN.

Scene menu items

Item	Function	Page
Itelli	Function	
Save	Registers the current settings in the selected scene.	
Load	Loads the settings registered for the selected scene. You can also configure the SCENE link playback setting, select items to be included as the scene assignments, or view the settings currently assigned to the selected scene.	102
Rename/Icon Select	Changes the scene name and icon.	103
Reset	Restores the default settings for the selected scene.	103

Save

Registers the unit's current settings (such as input source and sound program) in the selected scene.



 If you have changed the input assignment for a scene, you also need to change the external device assigned to the corresponding SCENE key (p.63).

Load

Loads the settings registered for the selected scene.

Select "DETAIL" to configure the SCENE link playback setting or view the scene assignments.

□ Device Control

Recalls a selected scene and starts its playback on an external device connected to the unit via HDMI. (SCENE link playback)

Settings

Off	Disables the SCENE link playback function.
HDMI Control	Enables SCENE link playback using HDMI Control signals. Select this if an HDMI Control-compatible device (such as a BD/DVD player) is connected to the unit via HDMI. It also turns on the TV if it supports HDMI Control.

Default

SCENE1 (BD/DVD), SCENE2 (TV): HDMI Control SCENE3 (NET), SCENE4 (RADIO), SCENE5–12: Off



 To control playback of an HDMI Control-compatible device by SCENE link playback, you need to set "HDMI Control" in the "Setup" menu to "On" and perform the HDMI Control link setup (p.156).

□ Detail

Selects items to be included as the scene assignments. You can also view the settings currently assigned to the selected scene.

To include items as the scene assignments, use the cursor keys to select an item and press ENTER to check the box (or uncheck the box to exclude).

For example, if you often adjust the volume while watching TV but listen to radio with low volume at night, exclude "Volume" from the assignments for SCENE2 (TV) and include "Volume" in the assignments for SCENE4 (RADIO).



Choices

Input	Input (p.61), Audio Select (p.98)
HDMI Output	HDMI Output (p.61)
Mode	Sound Program (p.64), Pure Direct Mode (p.116), Enhancer (p.69), Enhancer Hi-Res Mode (p.97)
Sound	Tone Control (p.96), Adaptive DRC (p.96)
Surround	CINEMA DSP 3D Mode (p.96), Dialogue Lift (p.96), Dialogue Level (p.96), Subwoofer Trim (p.97), Extended Surround (p.97)
Video	Video Mode (p.117), Video Adjustment (p.98)
Volume	Master Volume (p.61)
Lipsync	Lipsync (p.115), Delay (p.115)
Speaker Setup	Setting Pattern (p.111), PEQ Select (p.114)
-	

Default

Input, HDMI Output, Mode: selected

Sound, Surround, Video, Volume, Lipsync, Speaker Setup: not selected

■ Rename/Icon Select

Changes the scene name and icon displayed on the front display or TV screen.

- Setup procedure
- Use the cursor keys () to select an icon and press the cursor key (
 ∇).



- Press ENTER to enter the name edit screen.
- 3 Use the cursor keys and ENTER to rename and select "ENTER" to confirm the entry.





- To clear the entry, select "CLEAR".
- 4 Use the cursor keys to select "OK" and press ENTER.



- To restore the default setting, select "RESET".
- 5 To exit from the menu, press ON SCREEN.

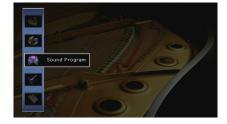
Reset

Restores the default settings (p.62) for the selected scene.

Configuring sound programs/surround decoders (Sound Program menu)

You can change the settings of the sound programs and surround decoders using the TV screen.

- Press ON SCREEN.
- Use the cursor keys to select "Sound Program" and press ENTER.



Use the cursor keys $(\triangleleft/\triangleright)$ to select a sound program to be configured and press the cursor key (\triangle).





• You can still switch the sound program by using cursor keys (△/▷) after Step 3.

Use the cursor keys (\triangle/∇) to select an item and press ENTER.





- To return to the previous screen during menu operations, press RETURN.
- To restore the default settings for the selected sound program, select "Reset".
- Use the cursor keys to select a setting and press ENTER.
- To exit from the menu, press ON SCREEN.

Sound Program menu items



• Available items and the default settings vary depending on the selected sound program or surround

Settings for sound programs

Item	Function	Settings	
Decode Type	Selects a surround decoder to be used in combination with the selected sound program.	MPro Logic*, Movie), PLIIx Movie (MPLII Movie), PLIIx Music* (MPLII Music*), PLIIx Game* (MPLII Game*), Neo:6 Cinema, Neo:6 Music* (* Available only when "SURROUND DECODER" is selected)	
DSP Level	Adjusts the sound field effect level.	-6 dB to +3 dB (default: 0 dB) Higher to enhance the sound field effect, and lower to reduce it.	
Initial Delay	Adjusts the delay between the direct sound and presence sound field generation.	1 ms to 99 ms Higher to enhance the delay effect, and lower to reduce it.	
Surround Initial Delay	Adjusts the delay between the direct sound and surround sound field generation.		
Surround Back Initial Delay	soling and surround back soling field		
Room Size	Adjusts the broadening effect of the presence sound field.	0.1 to 2.0	
Surround Room Size	Adjusts the broadening effect of the surround sound field.	Higher to enhance the broadening effect, and lower to reduce it	
Surround Back Room Size	Adjusts the broadening effect of the surround back sound field.	to reduce it.	

Item	Function	Settings
Liveness	Adjusts the loss of the presence sound field.	_ 0 to 10
Surround Liveness	Adjusts the loss of the surround sound field.	Higher to enhance the reflectivity, and lower to
Surround Back Liveness	Adjusts the loss of the surround back sound field.	reduce it.
Reverb Time	Adjust the decay time of the rear reverberant sound.	1.0 s to 5.0 s Higher to enrich the reverberant sound and lower to have clear sound.
Reverb Delay	Adjusts the delay between the direct sound and reverberant sound generation.	0 ms to 250 ms Higher to enhance the delay effect, and lower to reduce it.
Reverb Level	Adjusts the volume of the reverberant sound.	0% to 100% Higher to strengthen the reverberant sound, and lower to weaken it.

The following items are available when you select "2ch Stereo" or "9ch Stereo".

Sound program	Item	Function	Settings
2ch Stereo	Direct	Selects whether to automatically bypass the DSP circuit when an analog audio source is played back.	Auto (default), Off
	Level	Adjusts the entire volume.	-5 to +5 (default: 0)
9ch Stereo	Front / Rear Balance	Adjusts the front and rear volume balance.	-5 to +5 (default: 0) Higher to enhance the front side, and lower to enhance the rear side.
	Left / Right Balance	Adjusts the right and left volume balance.	-5 to +5 (default: 0) Higher to enhance the right side, and lower to enhance the left side.
	Height Balance	Adjust the height volume balance using the front presence speakers.	0 to 10 (default: 5) Higher to enhance the upside, and lower to enhance the downside. (The front presence speakers do not produce sounds when "Height Balance" is set to "0".)
	Monaural Mix	Enables/disables monaural sound output.	Off (default), On



[•] Available items in "9ch Stereo" vary depending on the speaker system being used.

Settings for decoders

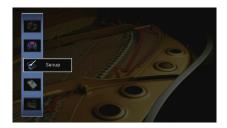
The following items are available when you set "Decode Type" of "SURROUND DECODER" to "MPLIIx Music" (MPLII Music) or "Neo:6 Music".

Pa	anorama	Adjusts the broadening	Off (default), On
		effect of the front sound field.	Select "On" to wrap front right/left channel sounds around the field and generate a spacious sound field in combination with the surround sound field.
☑PLIIx Music (☑PLII Music)	enter Width	Adjusts the broadening effect of the center sound field.	0 to 7 (default: 3) Higher to enhance the broadening effect, and lower to reduce it (closer to center).
Di	imension	Adjusts the difference in level between the front and surround sound fields.	-3 to +3 (default: 0) Higher to strengthen the front sound field and lower to strengthen the surround sound field.
Neo:6 Music Co	enter Image	Adjusts the center orientation level (broadening effect) of the front sound field.	0.0 to 1.0 (default: 0.3) Higher to strengthen the center orientation level (less broadening effect) and lower to weaken (more broadening effect).

Configuring various functions (Setup menu)

You can configure the unit's various function with the menu displayed on the TV screen.

- 1 Press ON SCREEN.
- Use the cursor keys to select "Setup" and press ENTER.



3 Use the cursor keys (</ >) to select a menu.



4 Use the cursor keys (\triangle/∇) to select an item and press ENTER.





- To return to the previous screen during menu operations, press RETURN.
- Use the cursor keys to select a setting and press ENTER.
- **6** To exit from the menu, press ON SCREEN.

Setup menu items

Menu	Item			Function	Page
	Auto Setup			Automatically optimizes the speaker settings (YPAO).	
		Setting Pattern		Registers two speaker setting patterns and switches between them.	111
		Setting Data Copy		Copies the "Setting Pattern" parameters in the specified direction.	111
		Power Amp Assign		Selects a speaker system.	111
			Front	Selects the size of the front speakers.	112
			Center	Selects whether or not a center speaker is connected and its size.	112
			Surround	Selects whether or not surround speakers are connected and their size.	112
			Surround Back	Selects whether or not surround back speakers are connected and their size.	112
Speaker		Configuration	Front Presence	Selects whether or not front presence speakers are connected.	113
	Manual Setup	ooga.ao	Rear Presence	Selects whether or not rear presence speakers are connected.	113
			Subwoofer 1 Subwoofer 2	Selects whether or not a subwoofer is connected to the SUBWOOFER 1 or SUBWOOFER 2 jack and its phase.	113
			SWFR Layout	Selects a subwoofer layout when 2 subwoofers are used.	113
			Extra Bass	Sets the speakers to produce the front channel low-frequency components.	113
		Distance		Sets the distance between each speaker and listening position.	113
		Level		Adjusts the volume of each speaker.	114
		Parametric EQ		Adjusts the tone with an equalizer.	114
		Test Tone		Enables/disables the test tone output.	114
		Delay Enable		Enables/disables the Lipsync adjustment for each input source.	115
	Lipsync	Auto/Manual Select		Selects the method to adjust the delay between video and audio output.	115
		Adjustment		Adjusts the delay between video and audio output manually.	115
	Dynamic Range	Dynamic Range		Selects the dynamic range adjustment method for bitstream audio (Dolby Digital and DTS signals) playback.	115
Sound	Max Volume	Max Volume		Sets the maximum volume to prevent excessive loudness.	115
	Initial Volume			Sets the initial volume for when this receiver is turned on.	116
	Pure Direct Mo	Pure Direct Mode		Selects whether to output video signals during the Pure Direct mode.	116
	Adaptive DSP L	Adaptive DSP Level		Selects whether to automatically adjust the CINEMA DSP effect level.	116
	VPS (RX-V3075 only)		Selects whether to create Virtual Presence Speaker (VPS) using the front, center, and surround speakers.	116

Menu	Item		Function	Page
Video	Analog to Analo	g Conversion	Enables/disables the video conversion between the analog video jacks	117
video	Video Mode		Enables/disables the video signal processing (resolution, aspect ratio and video adjustments).	117
номі	HDMI Control		Enables/disables HDMI Control. You can also configure the relevant settings (such as ARC and TV audio input).	119
	Audio Output		Selects a device to output audio.	119
	Standby Throug	h	Select whether to output videos/audio (input through HDMI jacks) to the TV when the unit is in standby mode.	120
	IP Address		Configures the network parameters (such as IP address).	120
Material	Network Standby		Selects whether to enable/disable the function that turns on the unit from other network devices.	121
Network	MAC Address Fi	ilter	Sets the MAC address filter to limit access to the unit from other network devices.	121
	Network Name		Edits the network name (the unit's name on the network) displayed on other network devices.	121
	Main Zone Set	Zone Rename	Changes the zone name (for main zone) displayed on the front display or TV screen.	122
	-	Volume	Enables/disables volume adjustments for Zone2 or Zone3 output.	122
		Max Volume	Sets the Zone2 or Zone3 maximum volume to prevent excessive loudness in the second zone.	122
	Zone2 Set	Initial Volume	Sets the Zone2 or Zone3 initial volume for when the unit is turned on.	122
	Zone3 Set	Mono	Switches between stereo and monaural for Zone2 or Zone3 output.	123
Multi Zone		Zone Scene Rename	Changes the scene names (for Zone2 or Zone3) displayed on the front display or TV screen.	123
wulli Zone		Zone Rename	Changes the zone name (for Zone2 or Zone3) displayed on the front display or TV screen.	123
	710-4	Zone Scene Rename	Changes the scene names (for Zone4) displayed on the front display or TV screen.	123
	Zone4 Set	Zone Rename	Changes the zone name (for Zone4) displayed on the front display or TV screen.	123
	Monitor Out Assign		Select the zone for which the MONITOR OUT/ZONE OUT jacks are used.	123
	HDMI OUT2 Assign		Select the zone for which the HDMI OUT 2 (ZONE OUT) jack is used.	124
	Party Mode Set		Enables/disables switching to the party mode for each zone.	124
	Input Assignme	nt	Assigns the COMPONENT VIDEO, COAXIAL and OPTICAL jacks to another input source.	124
		Dimmer (Front Display)	Adjusts the brightness of the front display.	125
	Display Set	Short Message	Selects whether to display short messages on the TV screen when the unit is operated.	125
F		Wallpaper	Selects the image to be used as wallpaper on the TV.	125
Function	Trigger Output1 Trigger Output2	Trigger Mode	Specifies the condition for the TRIGGER OUT jack to function.	125
		Target Zone	Specifies the zone with which the TRIGGER OUT jack functions are synchronized.	126
	DC OUT	Power Mode	Selects how to supply power through the DC OUT jack.	126
	Memory Guard		Prevents accidental changes to the settings.	126

Menu	Item	Function	Page
ECO	Auto Power Standby	Sets the amount of time for the auto-standby function.	127
	ECO Mode	Enables/disables the eco mode (power saving mode).	127
Language		Select an on-screen menu language.	127

Speaker (Manual Setup)

Configures the speaker settings manually.



Setting Pattern

Registers two speaker setting patterns and switches between them.

When you configure the following speaker settings, the settings will be memorized in the selected pattern.

- Measurement results (Auto Setup)
- Power Amp Assign
- Configuration
- Distance
- Level
- Parametric EQ

Settings

Pattern1 (default), Pattern2



- The setting pattern currently selected is shown at the top of the "Auto Setup" and "Manual Setup" screens.
- This function is useful when you want to save certain settings according to the varying conditions of your listening environment. For example, if you want to switch the settings when curtains are open or closed, you can save the settings suited for each condition and switch between them.

Setting Data Copy

Copies the "Setting Pattern" parameters in the specified direction.

Choices

Pattern1 > 2	Copies the "Pattern1" parameters to "Pattern2".
Pattern2 > 1	Copies the "Pattern2" parameters to "Pattern1".

Power Amp Assign

Selects a speaker system.

The unit has 9 built-in amplifiers. You can connect 2 to 11 speakers and up to 2 subwoofers (with built-in amplifier) to create the favorite acoustic space in your room. You can also apply bi-amp connections, channel expansion (using an external power amplifier) or multi-zone configurations to enhance your system.

Settings

Basic (default)	Select this option when you use the basic speaker configuration (up to 9-channel plus rear presence speakers) (p.19).
7ch +1ZONE	Select this when you use 7-channel speakers in the main zone and Zone2 (or Zone3) speakers (p.30). You can select a zone to be assigned to the EXTRA SP 1 jacks (default: Zone2).
9ch +1ZONE	Select this when you use 9-channel speakers in the main zone and Zone3 (or Zone2) speakers (p.30). You can select a zone to be assigned to the EXTRA SP 2 jacks (default: Zone3).
7ch +2ZONE	Select this when you use 7-channel speakers in the main zone, plus Zone2 and Zone3 speakers (p.31). You can select a zone to be assigned to the EXTRA SP 1 jacks (default: Zone2) and EXTRA SP 2 jacks (default: Zone3).
9ch +RP	(RX-V3075 only) Select this when you use 9-channel speakers plus rear presence channel expansion using an external amplifier (p.27).
9ch +FRONT	(RX-V3075 only) Select this when you use 9-channel speakers plus front channel expansion using an external amplifier (p.28).
7ch +FP+RP	(RX-V3075 only) Select this when you use 7-channel speakers, plus front presence and rear presence channel expansion using an external amplifier (p.28).
7ch +FRONT+1ZONE	Select this when you use 7-channel speakers plus front channel expansion using an external amplifier in the main zone and Zone3 (or Zone2) speakers (p.29). You can select a zone to be assigned to the EXTRA SP 2 jacks (default: Zone3).
5ch +FRONT+2ZONE	Select this when you use 5-channel speakers plus front channel expansion using an external amplifier in the main zone, plus Zone2 and Zone3 speakers (p.29). You can select a zone to be assigned to the EXTRA SP 1 jacks (default: Zone2) and EXTRA SP 2 jacks (default: Zone3).
7ch BI-AMP	Select this when you use 7-channel speakers (including bi-amp front speakers) (p.26).

7ch BI-AMP +1ZONE	Select this when you use 7-channel speakers (including bi-amp front speakers) in the main zone and Zone3 (or Zone2) speakers (p.26). You can select a zone to be assigned to the EXTRA SP 2 jacks (default: Zone3).
7ch BI-AMP +FP+RP	(RX-V3075 only) Select this when you use 7-channel speakers (including bi-amp front speakers), plus front presence and rear presence channel expansion using an external amplifier (p.27).

Configuration

Configures the output characteristics of the speakers.



• When you configure the speaker size, select "Large" if the woofer diameter of your speaker is 16 cm (6-1/4") or larger or "Small" if it is smaller than 16 cm (6-1/4").

☐ Front

Selects the size of the front speakers.

Settings

Large	Select this option for large speakers. The front speakers will produce all of the front channel frequency components.
Small (default)	Select this option for small speakers. The subwoofer will produce front channel low-frequency components lower than the specified crossover frequency (default: 80 Hz).



• "Front" is automatically set to "Large" when both "Subwoofer 1" and "Subwoofer 2" are set to "None".

☐ Center

Selects whether or not a center speaker is connected and its size.

Settings

Large	Select this option for large speakers. The center speaker will produce all of the center channel frequency components.
Small (default)	Select this option for small speakers. The subwoofer or front speakers will produce center channel low-frequency components lower than the specified crossover frequency (default: 80 Hz).
None	Select this option when no center speaker is connected. The front speakers will produce center channel audio.

□ Surround

Selects whether or not surround speakers are connected and their sizes.

Settings

Large	Select this option for large speakers. The surround speakers will produce all of the surround channel frequency components.
Small (default)	Select this option for small speakers. The subwoofer or front speakers will produce surround channel low-frequency components lower than the specified crossover frequency (default: 80 Hz).
None	Select this option when no surround speakers are connected. The front speakers will produce surround channel audio. Virtual CINEMA DSP works when you select a sound program.

☐ Surround Back

Selects whether or not surround back speakers are connected and their sizes.

Settings

Large x1	Select this option when one large speaker is connected. The surround back speaker will produce all of the surround back channel frequency components.
Large x2	Select this option when two large speakers are connected. The surround back speakers will produce all of the surround back channel frequency components.
Small x1	Select this option when one small speaker is connected. The subwoofer or front speakers will produce surround back channel low-frequency components lower than the specified crossover frequency (default: 80 Hz).
Small x2 (default)	Select this option when two small speakers are connected. The subwoofer or front speakers will produce surround back channel low-frequency components lower than the specified crossover frequency (default: 80 Hz).
None	Select this option when no surround back speakers are connected. The surround speakers will produce surround back channel audio.



• This setting is not available when "Surround" is set to "None".

☐ Front Presence

Selects whether or not front presence speakers are connected.

Settings

Use (default)	Select this option when front presence speakers are connected.
None	Select this option when no front presence speakers are connected.

☐ Rear Presence

Selects whether or not rear presence speakers are connected.

Settings

Use	Select this option when rear presence speakers are connected.
None (default)	Select this option when no rear presence speakers are connected.



• This setting is not available when "Surround" or "Front Presence" is set to "None".

☐ Subwoofer 1, Subwoofer 2

Selects whether or not a subwoofer is connected to the SUBWOOFER 1 or SUBWOOFER 2 jack and its phase.

Settings

Use	Normal (default)	Select this option when a subwoofer is connected to the SUBWOOFER 1 or SUBWOOFER 2 jack (phase not reversed). The subwoofer will produce LFE (low-frequency effect) channel audio and low-frequency components from other channels.
	Reverse	Select this option when a subwoofer is connected to the SUBWOOFER 1 or SUBWOOFER 2 jack (phase reversed). The subwoofer will produce LFE (low-frequency effect) channel audio and low-frequency components from other channels.
None		Select this option when no subwoofer is connected to the SUBWOOFER 1 or SUBWOOFER 2 jack. The front speakers will produce LFE (low-frequency effect) channel audio and low-frequency components from other channels when both "Subwoofer 1" and "Subwoofer 2" are set to "None".



• When the bass sound is lacking or unclear, switch the subwoofer phase.

☐ SWFR Layout

Selects a subwoofer layout when 2 subwoofers are used.

Settings

Left + Right	Select this option when 2 subwoofers are placed on the left and right sides of the room.
Front + Rear	Select this option when 2 subwoofers are placed on the front and rear sides of the room.
Monaural x2 (default)	Select this option when 2 subwoofers are placed freely.



• This setting is not available when "Subwoofer 1" or "Subwoofer 2" is set to "None".

□ Extra Bass

Sets the speakers to produce the front channel low-frequency components.

Settings

Off (default)	Depending on the size of the front speakers, either the subwoofer or front speakers produce the front channel low-frequency components.
On	Both the front speakers and subwoofer produce the front channel low-frequency components.



This setting is not available when both "Subwoofer 1" and "Subwoofer 2" are set to "None", or when "Front" is set to "Small".

Distance

Sets the distance between each speaker and listening position so that sounds from the speakers reach the listening position at the same time. First, select the unit of distance from "Meter" or "Feet".

Choices

Front L, Front R, Center, Surround L, Surround R, Surround Back L, Surround Back R, Front Presence L, Front Presence R, Rear Presence L, Rear Presence R, Subwoofer 1, Subwoofer 2

Setting range

0.30 m to 24.00 m (1.0 ft to 80.0 ft), 0.05 m (0.2 ft) increments

Default

3.00 m (10.0 ft)

Level

Adjusts the volume of each speaker.

Choices

Front L, Front R, Center, Surround L, Surround R, Surround Back L, Surround Back R, Front Presence L, Front Presence R, Rear Presence L, Rear Presence R, Subwoofer 1, Subwoofer 2

Setting range

-10.0 dB to +10.0 dB (0.5 dB increments)

Default

0.0 dB

Adjusting while viewing the front display

- 1 Press LEVEL.
- 2 Use the cursor keys (\triangle/∇) to select a speaker.
- 3 Use the cursor keys $(\triangleleft/\triangleright)$ to adjust the volume of the selected speaker.

Parametric EQ

Adjusts the tone with an equalizer.

Settings

Manual	Select this option when you want to adjust the equalizer manually. For details, see "Manual equalizer adjustment".
YPAO:Flat	Adjusts individual speakers to achieve the same characteristics.
YPAO:Front	Adjusts individual speakers to achieve the same characteristics as the front speakers.
YPAO:Natural	Adjusts all speakers to achieve a natural sound.
Through	Does not use the equalizer.



 "YPAO:Flat", "YPAO:Front", and "YPAO:Natural" are available only when the measurement results of "Auto Setup" have already been saved (p.50). Press ENTER again to view the measurement results.

Manual equalizer adjustment

- 1 Set "Parametric EQ" to "Manual" and press ENTER.
- 2 Press ENTER again to enter the edit screen.
- 3 Use the cursor keys to select a speaker and press ENTER.



- To restore the default settings for all speakers, select "PEQ Data Clear" and then "OK".
- To copy the parametric equalizer values acquired with "Auto Setup" (p.50) to the "Manual" fields for fine adjustment, select "PEQ Data Copy" and then an equalizer type.
- 4 Use the cursor keys () to select a center frequency from the 7 preset bands (4 for subwoofer) and the cursor keys (△/▽) to adjust the gain.



Setting range

Gain: -20.0 dB to +6.0 dB

5 To fine-adjust the center frequency or Q factor (bandwidth), press ENTER repeatedly to select an item.

Frequency: Use the cursor keys $(\triangleleft/\triangleright)$ to adjust the center frequency of the selected band and the cursor keys $(\triangle/\triangleright)$ to adjust the gain.

Q: Use the cursor keys $(\triangleleft/\triangleright)$ to adjust the Q factor (bandwidth) of the selected band and the cursor keys $(\triangle/\triangleright)$ to adjust the gain.

Setting range

Center frequency: 31.3 Hz to 16.0 kHz (31.3 Hz to 250.0 Hz for subwoofer) Q factor: 0.500 to 10.080

6 To exit from the menu, press ON SCREEN.

Test Tone

Enables/disables the test tone output. Test tone output helps you to adjust the speaker balance or equalizer while confirming its effect.

Settings

Off (default)	Does not output test tones.
On	Outputs test tones automatically when you adjust the speaker balance or equalizer.

Sound

Configures the audio output settings.



Lipsync

Adjusts the delay between video and audio by holding up the audio output.

□ Delay Enable

Enables/disables the Lipsync adjustment for each input source.

Choices

AV 1-7, V-AUX, AUDIO 1-4

Settings

Disable	Disable the Lipsync adjustment for the selected input source.
Enable (default)	Enables the Lipsync adjustment for the selected input source.

☐ Auto/Manual Select

Selects the method to adjust the delay between video and audio output.

Setting range

Auto (default)	Adjusts the delay between video and audio output automatically when a TV that supports an automatic lipsync function is connected to the unit via HDMI. If necessary, you can fine-adjust the audio output timing in "Adjustment".
Manual	Select this option when you want to adjust the delay between video and audio output manually. Adjust the audio output timing in "Adjustment".



Even if "Auto/Manual Select" is set to "Auto", the automatic adjustment does not work depending on the TV
connected to the unit. In this case, adjust the delay manually in "Adjustment".

□ Adjustment

Adjusts the delay between video and audio output manually when "Auto/Manual Select" is set to "Manual". You can fine-adjust the audio output timing when "Auto/Manual Select" is set to "Auto".



Setting range

0 ms to 500 ms (1 ms increments)

Default

0 ms



 When "Auto/Manual Select" is set to "Auto", "Offset" shows the difference between automatic adjustment and fine adjustment.

Dynamic Range

Selects the dynamic range adjustment method for bitstream audio (Dolby Digital and DTS signals) playback.

Settings

Maximum (default)	Produces audio without adjusting the dynamic range.
Standard	Optimizes the dynamic range for regular home use.
Minimum/Auto	Sets the dynamic range for clear sound even at night or at low volumes. When playing back Dolby TrueHD signals, the dynamic range is automatically adjusted based on the input signal information.

Max Volume

Sets the maximum volume to prevent excessive loudness.

Setting range

-30.0 dB to +15.0 dB (5.0 dB increments), +16.5 dB

Default

+16.5 dB

Initial Volume

Sets the initial volume when the receiver is turned on.

Settings

Off (default)	Sets the level to the volume level of the unit when it last entered standby mode.
On	Sets at Mute or the specified volume level (-80.0 dB to +16.5 dB, 0.5 dB increments). (Specify a volume level which is lower than the "Max Volume" setting.)

Pure Direct Mode

Selects whether to output video signals during the Pure Direct mode (p.69).

Settings

Auto (default)	Automatically outputs video signals when any videos are input from the selected input source or an input source that can be operated with the on-screen display is selected. When no video signals are input, the wall paper is displayed.
Video Off	Does not output video signals including the wall paper.

Adaptive DSP Level

Selects whether to automatically adjust the CINEMA DSP effect level.

Settings

Off	Does not adjust the effect level automatically.
On (default)	Adjusts the effect level automatically according to the YPAO measurement results and the volume level.

VPS

(RX-V3075 only)

Selects whether to create Virtual Presence Speaker (VPS) using the front, center, and surround speakers. When VPS is enabled, the unit creates front VPS when no front presence speakers are connected, and creates rear VPS when front presence speakers are connected but no rear presence speakers (p.65).

Settings

Off	Disables Virtual Presence Speaker (VPS).
On (default)	Enables Virtual Presence Speaker (VPS).



 Depending on the installation height of the surround speakers, VPS may not be effective. In this case, set "VPS" to "Off".

Video

Configures the video output settings.



Analog to Analog Conversion

Enables/disables the video conversion (p.154) between the analog video jacks (COMPONENT VIDEO, S VIDEO and VIDEO).

Settings

Off	Disables the video conversion between the analog video jacks.
On (default)	Enables the video conversion between the analog video jacks. Converted video signals are output from the MONITOR OUT jacks only.



- This function works only when "Monitor Out Assign" (p.123) is set to "Main" (default) and "HDMI OUT2 Assign" (p.124) is set to "Main" (default) or "Zone4".
- The unit does not convert 480-line and 576-line video signals interchangeably.
- Only 480i/576i-resolution video signals can be output from the S VIDEO and VIDEO jacks (p.154).

Video Mode

Enables/disables the video signal processing (resolution, aspect ratio and video adjustments).

Settings

Direct (default)	Disables the video signal processing.
Processing	Enables the video signal processing. Configure the settings in "Resolution", "Aspect" and "Adjustment".



 When "Video Mode" is set to "Direct", the unit transmits video signals with the least circuitry in order to reduce video output delay.

□ Resolution

Selects a resolution to output HDMI video signals when "Video Mode" is set to "Processing".

Settings

Through	Does not convert the resolution.
Auto (default)	Selects a resolution automatically in accordance with TV resolution.
480p/576p, 720p, 1080i, 1080p, 4K	Output video signals with a selected resolution. (Only the resolutions supported by your TV are selectable.)



• If you need to select a resolution that is not supported by your TV, set "MONITOR CHECK" (p.131) in the "ADVANCED SETUP" menu to "SKIP" and try again. (Note that the output video may not be displayed on your TV normally.)

□ Aspect

Selects an aspect ratio to output HDMI video signals when "Video Mode" is set to "Processing".

Settings

Through (default)	Does not convert the aspect ratio.
16:9 Normal	Outputs 4:3 video signals to a 16:9 TV with black bands on either side of the screen.



 This setting functions only when 480i/576i or 480p/576p signals are converted into 720p, 1080i, 1080p, or 2160p (4K) signals.

□ Adjustment

Configures the video adjustments when "Video Mode" is set to "Processing". You can register the video adjustments as presets (up to 6).

Setup procedure

- 1 Use the cursor keys (\triangle/∇) to select a preset number and press ENTER.
- Use the cursor keys (△/▽) to select an item.



- 3 Use the cursor keys () to select a setting and press ENTER.
- 4 To exit from the menu, press ON SCREEN.

Detail Enhancement

Adjusts the enhancement effect of video details.

Setting range

0 to 50

Default

0

Edge Enhancement

Adjusts the enhancement effect of video edges.

Setting range

0 to 50

Default

0

Brightness

Adjusts the video brightness.

Setting range

-100 to +100

Default

0

Contrast

Adjusts the video contrast.

Setting range

-100 to +100

Default

0

Saturation

Adjusts the video saturation.

Setting range

-100 to +100

Default

0

HDMI

Configures the HDMI settings.



HDMI Control

Enables/disables HDMI Control (p.156).

Settings

Off (default)	Disables HDMI Control.
On	Enables HDMI Control. Configure the settings in "TV Audio Input", "ARC" and "Standby Sync".



 To use HDMI control, you need to perform the HDMI Control link setup (p.156) after connecting HDMI Control-compatible devices.

☐ TV Audio Input

Selects an audio input jack of the unit to be used for TV audio input when "HDMI Control" is set to "On". The unit's input source automatically switches to TV audio when the TV input is switched to its built-in tuner.

Settings

AUDIO 1-4

Default

AUDIO 1



 When using ARC to input TV audio to the unit, you cannot use the input jacks selected here for connecting an external device because the input will be used for TV audio input.

☐ ARC

Enables/disables ARC (p.35) when "HDMI Control" is set to "On".

Settings

Off	Disables ARC.
On (default)	Enables ARC.



You do not need to change this setting normally. In case noises are produced from the speakers connected
to the unit because TV audio signals input to the unit via ARC are not supported by the unit, set "ARC" to
"Off" and use the TV's speakers.

☐ Standby Sync

Select whether to use HDMI control to link the standby behavior of the TV and the unit when "HDMI Control" is set to "On".

Settings

Off	Does not set the unit to standby mode when the TV is turned off.
On	Sets the unit to standby mode when the TV is turned off.
Auto (default)	Sets the unit to standby mode when the TV is turned off only when the unit is receiving TV audio or HDMI signals.

Audio Output

Selects a device to output audio.



- The "Amp" and "HDMI OUT1" settings are available only when "HDMI Control" is set to "Off".
- The "HDMI OUT2" setting is available only when "HDMI OUT2 Assign" (p.124) is set to "Main".

☐ Amp

Enables/disables the audio output from the speakers and headphones connected to the unit.

Settings

C	Off	Disables the audio output from the speakers and headphones.
C	On (default)	Enables the audio output from the speakers and headphones.

☐ HDMI OUT1, HDMI OUT2

Enables/disables the audio output from a TV connected to the HDMI OUT 1 jack or HDMI OUT 2 jack.

Settings

Off (default)	Disables the audio output from the TV.
On	Enables the audio output from the TV.



• The HDMI OUT 1-2 jacks output 2-channel audio signals when the unit is turned on.

Standby Through

Select whether to output videos/audio (input through HDMI jacks) to the TV when the unit is in standby mode. If this function is set to "On", you can use the input selection keys (AV 1–7 and V-AUX) to select an HDMI input even when the unit is in standby mode (the standby indicator on the unit blinks).

Settings

Off (default)	Does not output videos/audio to the TV.
On	Outputs videos/audio to the TV. (The unit consumes more power than when "Off" is selected.)



• This setting is available only when "HDMI Control" is set to "Off".

Network

Configures the network settings.



IP Address

Configures the network parameters (such as IP address).

□ DHCP

Select whether to use a DHCP server.

Settings

Off	Does not use a DHCP server. Configure the network parameters manually. For details, see "Manual network settings".
On (default)	Uses a DHCP server to automatically obtain the unit's network parameters (such as IP address).

Manual network settings

- 1 Set "DHCP" to "Off".
- 2 Use the cursor keys (\triangle/∇) to select a parameter type and press ENTER.

IP Address	Specifies an IP address.
Subnet Mask	Specifies a subnet mask.
Default Gateway	Specifies the IP address of the default gateway.
DNS Server (P)	Specifies the IP address of the primary DNS server.
DNS Server (S)	Specifies the IP address of the secondary DNS server.

- 3 Use the cursor keys (
 (
 | √>) to move the edit position and the cursor keys (△/▽) to select a value.
- 4 To confirm the setting, press ENTER.
- 5 To configure another network parameter, repeat steps 2 to 4.

- 6 To save the changes, use the cursor keys to select "OK" and press ENTER.
- 7 To exit from the menu, press ON SCREEN.

Network Standby

Selects whether the unit can be turned on from other network devices (network standby).

Settings

Off (default)	Disables the network standby function.
On	Enables the network standby function. (The unit consumes more power than when "Off" is selected.)

MAC Address Filter

Sets the MAC address filter to limit access to the unit from other network devices.

☐ Filter

Enables/disables the MAC address filter.

Settings

Off (default)	Disables the MAC address filter.
On	Enables the MAC address filter. In "MAC Address 1–10", specify the MAC addresses of the network devices that will be permitted access to the unit.

☐ MAC Address 1–10

Specifies the MAC addresses (up to 10) of the network devices that will be permitted access to the unit when "Filter" is set to "On".

Procedure

- Use the cursor keys (△/▽) to select "MAC Address 1–5" or "MAC Address 6–10" and press ENTER.
- 2 Use the cursor keys (△/▽) to select an MAC address number and press ENTER.
- 3 Use the cursor keys (⟨√/▷) to move the edit position and the cursor keys (△/▽) to select a value.
- 4 To confirm the setting, press ENTER.
- 5 To save the changes, use the cursor keys to select "OK" and press ENTER.
- To exit from the menu, press ON SCREEN.

Network Name

Edits the network name (the unit's name on the network) displayed on other network devices.

Procedure

- Press ENTER to enter the name edit screen.
- 2 Use the cursor keys and ENTER to rename and select "ENTER" to confirm the entry.





- · To clear the entry, select "CLEAR".
- 3 Use the cursor keys to select "OK" and press ENTER.



- To restore the default setting, select "RESET".
- 4 To exit from the menu, press ON SCREEN.

Multi Zone

Configures the multi zone settings.



Main Zone Set

Configures the main zone setting

☐ Zone Rename

Changes the zone name (for main zone) displayed on the front display or TV screen.

Procedure

- Press ENTER to enter the name edit screen.
- Use the cursor keys and ENTER to rename and select "ENTER" to confirm the entry.





- · To clear the entry, select "CLEAR".
- 3 Use the cursor keys to select "OK" and press ENTER.



- To restore the default setting, select "RESET".
- 4 To exit from the menu, press ON SCREEN.

Zone2 Set, Zone3 Set

Configures the Zone2 or Zone3 settings.

□ Volume

Enables/disables volume adjustments for Zone2 or Zone3 output.

If you have connected an external amplifier with volume control to the unit, disable the volume adjustment for the corresponding zone.

Settings

Fixed	Disables volume adjustments for Zone2 or Zone3 output.
Variable (default)	Enables volume adjustments for Zone2 or Zone3 output.



• This setting is not available depending on the "Power Amp Assign" setting (p.111).

☐ Max Volume

Sets the Zone2 or Zone3 maximum volume to prevent excessive loudness.

Setting range

-30.0 dB to +15.0 dB (5.0 dB increments), +16.5 dB

Default

+16.5 dB



• This setting is available only when "Volume" is set to "Variable".

☐ Initial Volume

Sets the Zone2 or Zone3 initial volume for when the unit is turned on.

Settings

Off (default)	Sets the level at the volume level of the unit when it last entered standby mode.
On	Sets at Mute or the specified volume level (-80.0 dB to +16.5 dB, 0.5 dB increments). (Specify a volume level which is lower than the "Max Volume" setting.)



• This setting is available only when "Volume" is set to "Variable".

☐ Mono

Switches between stereo and monaural for Zone2 or Zone3 output.

Settings

Off (default)	Produces stereo sounds in Zone2 or Zone3.
On	Produces monaural sounds in Zone2 or Zone3.

□ Zone Scene Rename

Changes the scene names (for Zone2 or Zone3) displayed on the front display or TV screen.

Procedure

- Use the cursor keys to select a scene to be renamed and press ENTER.
- Press ENTER to enter the name edit screen.
- 3 Use the cursor keys and ENTER to rename and select "ENTER" to confirm the entry.





- To clear the entry, select "CLEAR".
- 4 Use the cursor keys to select "OK" and press ENTER.



- To restore the default setting, select "RESET".
- 5 To exit from the menu, press ON SCREEN.

□ Zone Rename

Changes the zone name (for Zone2 or Zone3) displayed on the front display or TV screen.

You can change the zone name in the same manner as "Zone Rename" in "Main Zone Set" (p.122).

Zone4 Set

Configures the Zone4 settings.

☐ Zone Scene Rename

Changes the scene names (for Zone4) displayed on the front display or TV screen. You can change the scene names in the same manner as "Zone Scene Rename" in "Zone2 Set, Zone3 Set" (p.123).

☐ Zone Rename

Changes the zone name (for Zone4) displayed on the front display or TV screen. You can change the zone name in the same manner as "Zone Rename" in "Main Zone Set" (p.122).

Monitor Out Assign

Select the zone for which the MONITOR OUT/ZONE OUT (COMPONENT VIDEO, S VIDEO and VIDEO) jacks are used.

Settings

Main (default), Zone2, Zone3



To watch videos played back on a video device on the zone video monitor, you need to connect the video
monitor to the unit in the same way as the video device. For example, if you want to watch videos input from
the DVD player via a component video cable, connect the video monitor to the COMPONENT VIDEO jacks
with a component video cable.

HDMI OUT2 Assign

Select the zone for which the HDMI OUT 2 (ZONE OUT) jack is used.

Settings

Main (default), Zone2, Zone4



• For details on video/audio signals that can be output to each zone, see "Multi-zone output" (p.155).

□ Audio Output

Enables/disables the audio output from the HDMI OUT 2 jack when "HDMI OUT2 Assign" is set to "Zone2".

On	Enables the audio output.
Off (default)	Disables the audio output (video output only).

Party Mode Set

Enables/disables switching to the party mode (p.93) for each zone.

Choice

Target: Zone2, Target: Zone3, Target: Zone4

Settings

Disable	Disables switching to the party mode.
Enable (default)	Enables switching to the party mode. You can turn on/off the party mode by pressing PARTY on the remote control.

Function

Configures the functions that make the unit easier to use.



Input Assignment

Assigns the COMPONENT VIDEO, COAXIAL and OPTICAL jacks to another input source.

Procedure

Example: assigning the OPTICAL (5) jack to the input source "AV 2"

1 Use the cursor keys to select the cell at the intersection of "AV 2" and "Optical", and press ENTER.



Use the cursor keys to select "5" and press ENTER.



3 To exit from the menu, press ON SCREEN.



• You cannot assign both COAXIAL and OPTICAL jacks to the same input source.

Display Set

Configures the settings related to the front display and TV screen display.

☐ Dimmer (Front Display)

Adjusts the brightness of the front display.

Setting range

-4 to 0 (higher to brighten)

Default

0



• The front display may become dark when "ECO Mode" (p.127) is set to "On".

☐ Short Message

Selects whether to display short messages on the TV screen when the unit is operated (such as input selection and volume adjustment).

Settings

On (default)	Displays short messages on the TV screen.
Off	Does not display short messages on the TV screen.

□ Wallpaper

Selects the image to be used as wallpaper on the TV.

Settings

Picture 1 (default), Picture 2, Picture 3	Displays the selected image on the TV screen when there is no video signal.
Gray	Displays a gray background on the TV screen when there is no video signal.

Trigger Output1, Trigger Output2

Sets the TRIGGER OUT 1–2 jacks to function in sync with the power status of each zone or input switching.

☐ Trigger Mode

Specifies the condition for the TRIGGER OUT jack to function.

Settings

Power (default)	The TRIGGER OUT jack functions in sync with the power status of the zone specified with "Target Zone".
Source	The TRIGGER OUT jack functions in sync with the input switching in the zone specified with "Target Zone". An electronic signal is transmitted according to the setting made in "Source".
Manual	Select this to manually switch the output level for electronic signal transmission with "Manual".

Source

Specifies the output level of the electronic signal transmitted with each input, switching when "Trigger Mode" is set to "Source".

Choices

AV 1-7, V-AUX, AUDIO 1-4, PHONO, TUNER, (network sources), USB, MULTI CH

Settings

Low	Stops the electronic signal transmission when you switch to the input source specified in this option.
High (default)	Transmits the electronic signal when you switch to the input source specified in this option.

Manual

Switches the output level for electronic signal transmission manually when "Trigger Mode" is set to "Manual". This setting can also be used to confirm proper function of the external device connected via the TRIGGER OUT jack.

Choices

Low	Stops the electronic signal transmission.
High (default)	Transmits the electronic signal.

☐ Target Zone

Specifies the zone with which the TRIGGER OUT jack functions are synchronized.

Settings

Main	When "Trigger Mode" is set to "Power", electronic signal transmission is synchronized with the power status of the main zone. When "Trigger Mode" is set to "Source", electronic signal transmission is synchronized with the input switching in the main zone.
Zone2	When "Trigger Mode" is set to "Power", electronic signal transmission is synchronized with the power status of Zone2. When "Trigger Mode" is set to "Source", electronic signal transmission is synchronized with the input switching in Zone2.
Zone3	When "Trigger Mode" is set to "Power", electronic signal transmission is synchronized with power status of Zone3. When "Trigger Mode" is set to "Source", electronic signal transmission is synchronized with input switching in Zone3.
Zone4	When "Trigger Mode" is set to "Power", electronic signal transmission is synchronized with power status of Zone4. When "Trigger Mode" is set to "Source", electronic signal transmission is synchronized with input switching in Zone4.
All (default)	When "Trigger Mode" is set to "Power", electronic signal transmission is synchronized with the power status of any zone. When "Trigger Mode" is set to "Source", electronic signal transmission is synchronized with the input switching in any zone.

DC OUT

Configures the DC OUT jack setting.

☐ Power Mode

Selects how to supply power to the Yamaha AV accessory connected to the DC OUT jack.

Settings

Continuous (default)	Supplies power through the DC OUT jack continuously regardless of the power state (on/standby) of the unit.
Main Zone Power Sync.	Supplies power through the DC OUT jack only when the main zone is turned on. (This setting may not work properly on some accessories.)

Memory Guard

Prevents accidental changes to the settings.

Settings

Off (default)	Does not protect the settings.
On	Protects the settings until "Off" is selected.



• When "Memory Guard" is set to "On", the lock icon (1) is displayed on the menu screen.



ECO

Configures the power supply settings.



Auto Power Standby

Sets the amount of time for the auto-standby function. If you do not operate the unit for the specified time, the unit will automatically go into standby mode.

Settings

Off (default)	Does not set the unit to standby mode automatically.
2 hours, 4 hours, 8 hours, 12 hours	Sets the unit to standby mode when you have not operated the unit for the specified time. For example, when "2 hours" is selected, the unit will switch to standby mode if you do not operate it for 2 hours.



 Just before the unit enters standby mode, "AutoPowerStdby" appears and then countdown starts in the front display.

ECO Mode

Enables/disables the eco (power saving) mode.

When the eco mode is enabled, you can reduce the unit's power consumption.

Settings

Off (default)	Disables the eco mode.
On	Enables the eco mode.



- The new setting will take effect after the unit is restarted.
- When "ECO Mode" is set to "On", the front panel display may become dark.
- If you want to play audio at high volume, set "ECO Mode" to "Off".

Language

Select an on-screen menu language.



Settings

English (default)	English
日本語	Japanese
Français	French
Deutsch	German
Español	Spanish
Русский	Russian
Italiano	Italian
中文	Chinese



• The information on the front display is provided in English only.

Viewing information about the unit (Information menu)

You can view information about the unit using the TV screen.

- 1 Press ON SCREEN.
- Use the cursor keys to select "Information" and press ENTER.



3 Use the cursor keys () to select an information type.



4 To exit from the menu, press ON SCREEN.

Types of information

Audio Signal

Displays information about the current audio signal.

Input	Format	Audio format of the input signal
	Channel	The number of source channels in the input signal (front/surround/LFE) For example, "5.1 (3/2/0.1)" means 5.1ch in total (3 front channels, 2 surround channels, and LFE).
	Sampling	The number of samples per second of the input digital signal
	Bitrate	The amount of data per second of the input bitstream signal
	Dialogue	The dialogue normalization level of the input bitstream signal
Output		The speaker terminals from which signals are output



 Even when the unit is set to output bitstream signals directly, the signal may be converted depending on the specifications and settings of the playback device.

Video Signal

Displays information about the current video signal.

HDMI Signal	Presence or absence of HDMI signal input/output
HDMI Resolution	Resolutions of input signal (analog or HDMI) and output signal (HDMI)
Analog Resolution	Resolutions of input signal (analog) and signal output at the MONITOR OUT jacks (analog)

HDMI Monitor

Displays information about the TVs connected to the HDMI OUT jacks. Use the cursor keys (\triangle/∇) to switch between "OUT1" and "OUT2".

Interface	TV interface
Video Resolution	Resolutions supported by the TV

Network

Displays the network information on the unit.

IP Address	IP address
Subnet Mask	Subnet mask
Default Gateway	The IP address of the default gateway
DNS Server (P)	The IP address of the primary DNS server
DNS Server (S)	The IP address of the secondary DNS server
MAC Address	MAC address
Network Name	Network name (the unit's name on the network) (p.121)
Status	The connection status of the NETWORK jack

System

Displays the system information on the unit.

Remote ID	The unit's remote control ID setting (p.130)
TV Format	The unit's video signal type (p.131)
Speaker Impedance	The speaker impedance setting of the unit (p.130)
System ID	System ID number
Firmware Version	The version of firmware installed on the unit



If the unit detects a newer firmware over the network, "!" (exclamation mark) appears at the upper right of
the "Information" and "System" icons, and the corresponding message will be displayed in this screen. You
can update the unit's firmware by pressing ENTER in this screen and following the procedure in "Updating
the unit's firmware via the network" (p.141).

Multi Zone

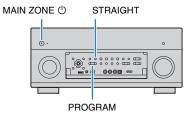
Displays information about Zone2, Zone3 and Zone4.

Input	The input source selected for Zone2, Zone3 or Zone4
Volume	The volume for Zone2 or Zone3

Configuring the system settings (ADVANCED SETUP menu)

Configure the system settings of the unit while viewing the front display.

- Set the unit to standby mode.
- **While holding down STRAIGHT on the front panel, press MAIN ZONE 也.**



- 3 Press PROGRAM to select an item.
- 4 Press STRAIGHT to select a setting.
- Press MAIN ZONE () to set the unit to standby mode and turn it on again.

The new settings take effect.

ADVANCED SETUP menu items

Item	Function	Page
SPEAKER IMP.	Changes the speaker impedance setting.	130
REMOTE SENSOR	Turns on/off of the remote control sensor on the main unit.	130
REMOTE CON AMP	Selects the unit's remote control ID.	130
TV FORMAT	Switches the video signal type.	131
MONITOR CHECK	Removes the limitation on HDMI video output.	131
RECOV./BACKUP	Creates backup of the settings of the unit, or recovers the settings from the backup.	131
INITIALIZE	Restores the default settings.	131
FIRM UPDATE	Updates the firmware.	132
VERSION	Checks the version of firmware currently installed on the unit.	132

Changing the speaker impedance setting (SPEAKER IMP.)

SPEAKER IMP.

Change the unit's speaker impedance settings depending on the impedance of the speakers connected.

Settings

6 Ω ΜΙΝ	Select this option when you connect 6-ohm speakers to the unit. You can also use 4-ohm speakers as the front speakers.
8 Ω MIN (default)	Select this option when you connect 8-ohm or higher speakers to the unit.

Turning on/off the remote control sensor (REMOTE SENSOR)



Turn on/off the remote control sensor on the main unit. While the remote control sensor is turned off, you cannot control the unit from the remote control.

Settings

ON (default)	Turns on the remote control sensor.
OFF	Turns off the remote control sensor.

Selecting the remote control ID (REMOTE CON AMP)



Change the unit's remote control ID so that it matches the remote control's ID (default: ID1). When using multiple Yamaha AV receivers, you can set each remote control with a unique remote control ID for its corresponding receiver.

Settings

ID1 (default), ID2

Changing the remote control ID of the remote control

Perform each of the following steps within 30 seconds. Otherwise, the setting will be automatically canceled.

- Press SETUP.
- Use the cursor keys (\triangle/∇) to select "PRESET" and press ENTER.



- Press RECEIVER () and press ENTER.
- 4 Use the numeric keys or cursor keys to enter "5019" (ID1) or "5020" (ID2).

5020

Press ENTER to confirm the setting.

Once the remote control ID is registered successfully, "OK" appears in the display window.

If "ERROR" appears, registration failed. Repeat from step 3.

To exit from the setup menu, press SETUP.



• The registered remote control codes (p.133) are not cleared even if you change the remote control ID.

Switching the video signal type (TV FORMAT)

FORMA

Switch the video signal type of the unit so that it matches to the format of your TV.

Settings

NTSC, PAL (default)

Removing the limitation on HDMI video output (MONITOR CHECK)

MONITOR CHECK

The unit automatically detects resolutions supported by a TV connected to the HDMI OUT jack.

Disable the monitor check function if you want to specify a resolution in "Resolution" (p.117) when the unit cannot detect the TV's resolution or when you want to specify a different resolution than the detected resolution

Settings

YES (default)	Enables the monitor check function. (Outputs video signals with a resolution supported by the TV only.)
SKIP	Disables the monitor check function. (Outputs video signals with a specified resolution regardless of compatibility with the TV.)



· Reset to "YES" if the unit becomes inoperable because video from the unit cannot be displayed on the TV after "MONITOR CHECK" has been set to "SKIP".

Backing up/recovering the settings (RECOV./BACKUP)

RECOV./BACKUP

Creates backup of the settings of the unit, or recovers the settings from the backup.

Backup/recovery procedure

Press STRAIGHT repeatedly to select "BACKUP" or "RECOVERY" and press INFO to start the process.

Choices

BACKUP	Creates backup of the settings of the unit in the internal memory.
RECOVERY	Recovers the settings of the unit from the backup (available only when backup has been created).

Note

- · Do not turn off the unit during the recovery process. Otherwise, the settings may not be restored
- The backup does not contain user information (such as user accounts and passwords).

Restoring the default settings (INITIALIZE)

Restores the default settings for the unit.

Choices

VIDEO	Restores the default settings for video configurations.	
ALL	Restores the default settings for the unit.	
CANCEL	Does not perform an initialization.	

Updating the firmware (FIRM UPDATE)

FIRM UPDATE USB

New firmware that provides additional features or product improvements will be released as needed. Updates can be downloaded from the Yamaha website. If the unit is connected to the Internet, you can download the firmware via the network. For details, refer to the information supplied with updates.

Firmware update procedure

Do not perform this procedure unless firmware update is necessary. Also, make sure you read the information supplied with updates before updating the firmware.

Press STRAIGHT repeatedly to select "USB" or "NETWORK" and press INFO to start firmware update.

Choices

USB	Update the firmware using a USB memory device.
NETWORK	Update the firmware via the network.



 If the unit detects newer firmware over the network, the corresponding message will be displayed after ON SCREEN is pressed. In this case, you can also update the unit's firmware by following the procedure in "Updating the unit's firmware via the network" (p.141).

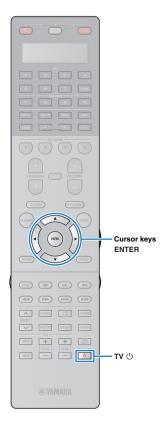
Checking the firmware version (VERSION)



Check the version of firmware currently installed on the unit.



- You can also check the firmware version in "System" (p.129) in the "Information" menu.
- . It may take a while until the firmware version is displayed.





Controlling external devices with the remote control

You can use the unit's remote control to operate external devices (such as BD/DVD players) if you have registered the remote control code of the external device. You can also use the macro function to sequentially operate multiple functions at once.

Press SETUP.





- If no operation is performed within 30 seconds, the remote control automatically exits from the setup menu.
- 2 Use the cursor keys (△/▽) to select an item and press ENTER.



Item	Function	Page
LEARN	Assigns a function to each key by learning the code from other remote controls.	135
PRESET	Registers the remote control code for external devices.	133
RENAME	Edits the device names or scene names displayed on the remote control's display window.	136
MACRO	Programs macro operations (sequence of control commands).	137
CLEAR	Clears the remote control configurations.	139
ERASE	Erases a function assigned to each key by learning.	140
EX-IR	Extended IR code mode. This feature is for the authorized custom installers only.	_

· You cannot control an external device that does not have a remote control sensor.

Registering remote control codes

■ Registering the remote control code for a TV

You can use the unit's remote control to operate a TV if you have registered its remote control code.



- You can also register your TV's remote control code to the unit's input selection keys (p.134). This would allow you to use the cursor keys or numeric keys to operate the TV (this function may not be available on some TV models).
- Use "Remote Control Code Search" in the CD-ROM to find your TV's remote control code.



• If there are multiple remote control codes, register the first code in the list. If that does not work, try the other codes.

Press SETUP.

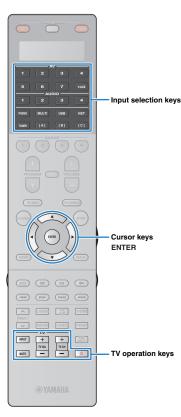
Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 2.

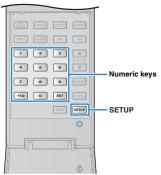
3 Use the cursor keys (△/▽) to select "PRESET" and press ENTER.



4 Press TV () and press ENTER.

"----" (empty) or code currently registered





5 Use the numeric keys or cursor keys to enter the 4-digit remote control code and press ENTER.

Once the remote control code is successfully registered, "OK" appears in the display window.

If "ERROR" appears, registration has failed. Repeat from Step 3.

To exit from the setup menu, press SETUP.

□ TV operations

Once you have registered the remote control code for your TV, you can control it using the TV operation keys, regardless of the input source selected on the unit.

	INPUT	Switches the video inputs of the TV.
	MUTE	Mutes the audio output of the TV.
TV operation keys	TV VOL	Adjust the volume of the TV.
	TV CH	Switch the channels of the TV.
	TV 🖰	Turns on/off the TV.

Registering the remote control codes for playback devices

You can use the unit's remote control to operate playback devices if you have registered their remote control codes. You can also use the input selection keys to change the playback devices that are controlled by the remote control, because their remote control codes are assigned to the input selection keys.



- Under the unit's default settings, the amplifier code (Yamaha: 5098) is set for all
 the input selection keys. With this setting, you can control HDMI
 Control-compatible devices connected to the unit with the remote control. (This
 function may not work depending on the specification of the external device.)
- If you have registered the remote control code for an external device to the [A], [B] or [C] key, you can operate the device with the remote control without switching the input source after pressing the key.

Use "Remote Control Code Search" in the CD-ROM to find the remote control code for your playback device.



 If there are multiple remote control codes, register the first code in the list. If that does not work, try the other codes.

Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 2.

3 Use the cursor keys (△/▽) to select "PRESET" and press ENTER.



Press a corresponding input selection key and press ENTER.

For example, press AV1 to set the remote control code for the playback device connected to the AV1 jack.

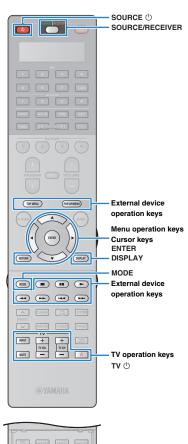
Code currently registered



5 Use the numeric keys or cursor keys to enter the 4-digit remote control and press ENTER.

Once the remote control code is successfully registered, "OK" appears in the display window.

If "ERROR" appears, registration has failed. Repeat from Step 3.



1 2 3

4 5 6

7 8 9 +10 0 ENT

ZONE

Numeric keys

SETUP



To exit from the setup menu, press SETUP.



 For details on how to register a remote control code to a SCENE key, refer to "Configuring scene assignments" (p.63).

☐ Playback device operations

Once you have registered the remote control code for your playback device, you can control it using the following keys after selecting the input source or scene.



· By pressing SOURCE/RECEIVER, you can switch the devices (the unit or external device) that are operated by the menu operation keys, DISPLAY and numeric keys. You can operate the unit when SOURCE/RECEIVER lights up in orange, and an external device when SOURCE/RECEIVER lights up in green. For example, if you register the remote control code of your external device on TUNER, you can operate the unit's built-in FM/AM radio when SOURCE/RECEIVER lights up in orange, and the external device when SOURCE/RECEIVER lights up in green.

SOURCE ()		Turns on/off the playback device.	
	Cursor keys	Select an item.	
Menu operation keys	ENTER	Confirms a selected item.	
eye	RETURN	Returns to the previous screen.	
DISPLAY		Switches information on the display.	
MODE Switches between modes		Switches between modes.	
	TOP MENU	Displays the top menu.	
	POP-UP/MENU	Displays the pop-up menu.	
		Stops playback.	
	11	Stops playback temporarily.	
External device operation keys	>	Starts playback of the selected song/video.	
	←	Searches forward/backward (by holding down).	
	►►	- Skips forward/backward.	
Numeric keys		Enter numerical values.	
TV operation keys		Control the TV (p.134).	



 These keys work only if the corresponding function is available on your playback device and if the device can be operated with an infrared remote control

Programming from other remote controls (learning)

The remote control of the unit can receive remote control signals from other infrared remote controls and learn the remote control operation. If you cannot find a remote control code for your playback device or if any key on the remote control does not work after you register the remote control code, use the learning function to assign a function to each key.

Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

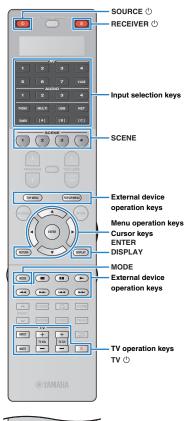
Use the cursor keys (\triangle/∇) to select "LEARN" and press ENTER.



Press one of the following keys depending on the type of your device.

For playback device: press the input selection key (corresponding to the input jacks where the device is connected).

For TV: press TV \odot .



2 3

ZONE SETUP

Numeric keys

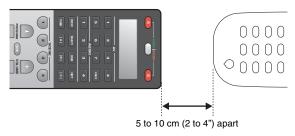
SETUP

4 5 6

7 8 9 +10 0 ENT 4 Press ENTER.

5 Aim the infrared transmitters of the remote controls at each other.

Remote control of external device



Perform the following steps (① and ②) within 10 seconds.

① On the unit, press one of the following keys to which you want to assign a function.

For playback device: SOURCE (b), menu operations keys, DISPLAY, MODE, external device operation keys, numeric keys

For TV: TV operation keys

② On the external device, press the key from which the operation is learned until "OK" appears in the display window.

If "NG" appears, learning has failed. Repeat from Step 4.

- 7 Repeat Steps 3 to 6 until all desired operations are learned.
- 8 To exit from the setup menu, press SETUP.



 This remote control can learn approximately 200 functions (may be decreased depending on the signals). If "FULL" appears in the display window, clear unnecessary assignments to free some memory space for the new functions.

Note

- If you press RECEIVER () in Step 3, you can assign functions of an external receiver to the menu operation keys, external device operation keys or numeric keys. However, it makes these keys to control the unit impossible. If you need to restore the remote control code for the unit, perform the following steps.
- 1 Press SETUP.
- ② Use the cursor keys (\triangle/∇) to select "CLEAR" and press ENTER.
- ③ Use the cursor keys (\triangle/∇) to select "LEARN" and press ENTER.
- (4) Press RECEIVER (1).
- (5) Hold down ENTER until "OK" appears on the window display.
- 6 To exit from the setup menu, press SETUP.

Editing device names

You can edit the device names or scene names displayed on the remote control's display window.

1 Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

2 Use the cursor keys (△/▽) to select "RENAME" and press ENTER.



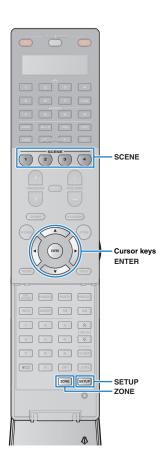
Press one of the following keys to select a device or a scene.

For playback device: press the input selection key (corresponding to the input jacks where the device is connected).

For TV: press TV 🖰.

For AV receiver (the unit): press RECEIVER ().

For scene: press one of the SCENE keys.





- To edit scene names of each zone, press one of the SCENE keys and press ZONE to select a zone.
- Press ENTER.
- 5 Use the cursor keys to rename.

To locate the position, use the cursor keys (\triangleleft / \triangleright). To select a character (A to Z, a to z, 0 to 9, space, symbols), use the cursor keys (\triangle / ∇).



- 6 Press ENTER to register the new name.
 - Once the new name is successfully registered, "OK" appears in the display window.
- 7 To edit another device name (or scene name), repeat Steps 3 to 6.
- 8 To exit from the setup menu, press SETUP.

Operating multiple functions at once (macro)

The macro function allows you to sequentially operate multiple functions at once.

For example, when you want to listen to a CD, you can turn on the CD player, select the corresponding input source on the unit and start playback on the CD player sequentially with a single key operation.

Enabling the macro operations

1 Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

Use the cursor keys (△/▽) to select "MACRO" and press ENTER.



3 Use the cursor keys (△/▽) to select "ON" and press ENTER.



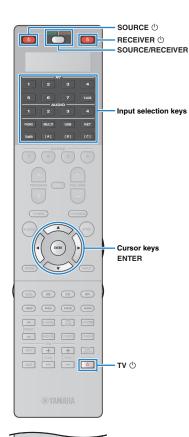
4 To exit from the setup menu, press SETUP.

"MACRO" lights up (when macro operations are enabled)





• To disable the macro operations, select "OFF" in Step 3.



By default, the following macro operations are available after pressing a macro operation key when the macro operations are enabled.

Macro operation key	Macro operations		
macro operation key	1st command	2nd commend	
RECEIVER ()	Turns on the unit.	(unregistered)	
Input selection keys	Turns on the unit.	Selects the corresponding input source. (unregistered for the [A], [B] and [C] keys)	

Programming macro operations

You can program up to 10 remote control commands for each macro operation key. If you press the corresponding macro operation key, the multiple operations will be carried out sequentially according to the programmed remote control commands.



- Before programming macro operations, you need to register the remote control codes (p.133) or assign a function to each key using the learning function (p.135).
- We do not recommend including continuous operations (such as volume adjustment) in macro operations.

1 Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

2 Use the cursor keys (△/▽) to select "MACRO" and press ENTER.



3 Use the cursor keys (△/▽) to select "EDIT" and press ENTER.



Press the macro operation key (RECEIVER () or input selection key) to which macro operations are assigned and press ENTER.

"MACRO 1" appears in the display window.



5 Press the keys for functions (up to 10) you want to include in the macro operations in sequence.

To switch the devices (the unit or external device) to control, press SOURCE/RECEIVER.

(Example)

Programming for ①turning on the unit, ②selecting "AV1" as the input source, ③turning on the DVD player assigned to "AV1" and ④turning on the TV

- ① (MACRO 1) Press RECEIVER ①.
- ② (MACRO 2) Press AV1.
- ③ (MACRO 3) Press SOURCE/RECEIVER repeatedly to select "AV1" and press SOURCE ().
- ④ (MACRO 4) Press SOURCE/RECEIVER repeatedly to select "TV" and press TV ^(¹).
- To confirm the setting, hold down ENTER until "OK" appears on the window display.

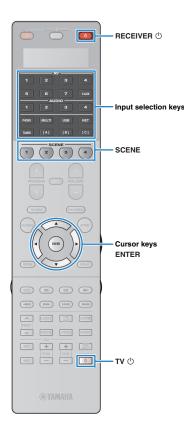
If you have programmed 10 functions, "FULL" appears and the setting is confirmed automatically.

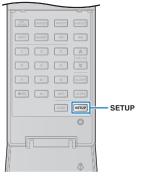
7 To exit from the setup menu, press SETUP.



SETUP

ZONE





Resetting the remote control configurations

Clearing the remote control configurations

You can clear remote control configurations by selecting a type of settings or clear all the remote control configurations.

Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

Use the cursor keys (△/▽) to select "CLEAR" and press ENTER.



3 Use the cursor keys (△/▽) to select the settings to be cleared and press ENTER.

PRESET

LEARN	Clears the functions learned from other remote controls.
PRESET	Restores the default remote control code settings.
RENAME	Restores the default device name settings.
MACRO	Clears the macro operation settings.
RESET	Clears all remote control configurations and restores default settings.

"ALL" appears in the display window.



To apply the selection to all the corresponding keys, proceed to Step 5.

To apply the selection to a specific key, proceed to Step 4.



- When "RESET" is selected, all remote control configurations will be cleared.
 You cannot select a specific key. Proceed to step 5.
- Press a key to which the selected process is applied.

When "LEARN" or "PRESET" is selected: press the input selection key or TV \odot .

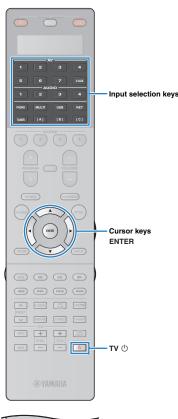
When "RENAME" is selected: press the input selection key, RECEIVER 1, TV 1 or SCENE.

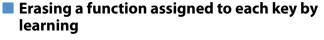
When "MACRO" is selected: press the macro operation key (input selection key or RECEIVER \circlearrowleft).

5 Hold down ENTER until "OK" appears on the window display.

If "NG" or "ERROR" appears, clearing has failed. Repeat from Step 2.

6 To exit from the setup menu, press SETUP.



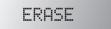


You can erase a function assigned to each key by learning and restore the default key assignments.

1 Press SETUP.

Perform each of the following steps within 30 seconds. Otherwise, the setting will be canceled. If this happens, repeat from Step 1.

2 Use the cursor keys (△/▽) to select "ERASE" and press ENTER.



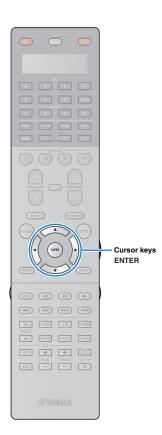
3 Press one of the following keys to select the device for which key assignments will be cleared.

For TV: press TV \circlearrowleft .

- 4 Press ENTER.
- 5 Hold down the key to be reset until "OK" appears on the window display.

If "NG" or "ERROR" appears, clearing has failed. Repeat from Step 2.

- 6 Repeat Steps 3 to 5 until all desired key assignments are erased.
- 7 To exit from the setup menu, press SETUP.



Updating the unit's firmware via the network

New firmware that provides additional features or product improvements will be released as needed. If the unit is connected to the Internet, you can download the firmware via the network and update it.

Note

- Do not operate the unit or disconnect the power cable or network cable during firmware update. Firmware update takes about 20 minutes or more (depending on your Internet connection speed).
- If the Internet connection speed is slow or if the unit is connected to the wireless network via a wireless network adapter, network update may not be possible depending on the condition of the wireless connection. In this case, try the firmware update later or use the USB memory device (p.132).



 You can also update the firmware using the USB memory device from the "ADVANCED SETUP" menu (p.132).

A firmware update is available if the following message is displayed after ON SCREEN is pressed.



- 1 Read the on-screen description.
- 2 To start the firmware update, use the cursor keys to select "START" and press ENTER.

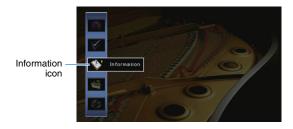
The on-screen display turns off.

3 If "UPDATE SUCCESS PLEASE POWER OFF!" appears on the front display, press MAIN ZONE () on the front panel.

The firmware update is complete.



If you want to update the firmware later, select "CLOSE" in Step 2. "!" (exclamation
mark) appears at the upper right of the "Information" and "System" icons, and a
message will be displayed in the "System" screen (p.129). You can update the
unit's firmware by pressing ENTER in the "System" screen.





APPENDIX

Frequently asked questions

The new speaker system does not provide an ideal sound balance...

If you have changed speakers or have a new speaker system, use "Auto Setup" to optimize the speaker settings again (p.50). If you want to adjust the speaker settings manually, use "Manual Setup" in the "Setup" menu (p.111).

Since we have small children, we want to set limitations on the volume control...

If a small child accidentally operates the controls on the main unit or remote control, the volume may suddenly increase. This may also cause injury or damage the unit or speakers. We recommend using "Max Volume" in the "Setup" menu to set the maximum volume level for the unit in advance (p.115). You can also set the maximum volume for Zone2 or Zone3 (p.122).

I am occasionally startled by a sudden loud sound when turning on the unit...

By default, the volume level when the unit last entered standby mode is automatically applied. If you want to fix the volume, use "Initial Volume" in the "Setup" menu to set the volume to be applied when the receiver is turned on (p.116). You can also set the initial volume for Zone2 or Zone3 (p.122).

We are bothered by volume differences when switching between input sources...

You can correct volume differences between input sources by utilizing "Input Trim" in the "Option" menu (p.97).

I made HDMI connections but HDMI Control does not work at all...

To use HDMI Control, you need to perform the HDMI Control link setup (p.156). After connecting HDMI Control-compatible devices (such as BD/DVD players) to the unit,

enable HDMI Control on each device and perform the HDMI Control link setup. This setup is required every time you add a new HDMI Control-compatible device to your system. For information on how HDMI Control works between your TV and playback devices, refer to the instruction manuals for each device.

I want to turn off the on-screen messages displayed during operations...

By default, short messages are displayed on the TV screen when the unit is operated (such as input selection and volume adjustment). If the short messages bother you when you are watching movies or sports, configure "Short Message" (p.125) in the "Setup" menu to turn off the short messages.

I want to prevent accidental changes to the settings...

You can protect the settings configured on the unit (such as speaker settings) by utilizing "Memory Guard" in the "Setup" menu (p.126).

The unit's remote control is simultaneously controlling another Yamaha product as well as the unit...

When using multiple Yamaha products, the remote control may work on another Yamaha product or another remote control may work on the unit. If this happens, register different remote control IDs for the devices that you want to control with each remote control (p.130).

I want to enjoy videos/audio played back on the video device even when the unit is in standby mode...

If you have connected a video device to the unit with HDMI, you can output videos/audio played back on the video device to the TV even when the unit is in standby mode. To use this function, set "Standby Through" (p.120) in the "Setup" menu to "On". You can also switch the input source using the remote control of the unit when this function is enabled

Troubleshooting

Refer to the table below when the unit does not function properly.

If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the unit, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

First, check the following:

- 1 The power cables of the unit, TV and playback devices (such as BD/DVD players) are connected to AC wall outlets securely.
- ② The unit, subwoofer, TV and playback devices (such as BD/DVD players) are turned on.
- ③ The connectors of each cable are securely inserted in to jacks on each device.

Power, system and remote control

Problem	Cause	Remedy	
The power does not turn on.	The protection circuitry has been activated three times consecutively. When the unit is in this condition, the standby indicator on the unit blinks if you try to turn on the power.	As a safety precaution, capability to turn on the power is disabled. Contact your nearest Yamaha dealer or service center to request repair.	
The power does not turn off. shock (such as lightning or excessive static electricity) or to a drop initialize		Hold down MAIN ZONE (b) on the front panel for more than 10 seconds to initialize and reboot the unit. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)	
The power turns off (standby mode) immediately. The unit was turned on while a speaker cable was shorted. Twist the bare wires of each speakers (p.23).		Twist the bare wires of each speaker cable firmly and reconnect to the unit and speakers (p.23).	
	The sleep timer worked.	Turn on the unit and start playback again.	
	The auto-standby function kicked in because the unit was not used for the specified time.	To disable the auto-standby function, set "Auto Power Standby" in the "Setup" menu to "Off" (p.127).	
The unit enters standby mode automatically.	The speaker impedance setting is incorrect.	Set the speaker impedance to match your speakers (p.130).	
The unit office standary mode accommunity.	The protection circuitry has been activated because of a short circuit.	Twist the bare wires of each speaker cable firmly and reconnect to the unit and speakers (p.23).	
	The protection circuitry has been activated because the volume of the unit is too high.	Turn down the volume. If "ECO Mode" in the "Setup" menu is set to "On", set it to "Off" (p.127).	
The unit is not reacting.	The internal microcomputer is frozen, due to an external electric shock (such as lightning or excessive static electricity) or to a drop in the power supply voltage.	Hold down MAIN ZONE (b) on the front panel for more than 10 seconds to initialize and reboot the unit. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)	

Problem	Cause	Remedy
The unit cannot be controlled using the remote control.	The unit is out of the operating range.	Use the remote control within the operating range (p.5).
	The batteries are weak.	Replace with new batteries.
	The unit's remote control sensor is exposed to direct sunlight or strong lighting.	Adjust the lighting angle, or reposition the unit.
	The remote control is set to control external devices.	Press SOURCE/RECEIVER to set the remote control to control the unit (the key lights up in orange).
	The remote control IDs of the unit and the remote control are not identical.	Change the remote control ID of the unit or the remote control (p.130).
External devices cannot be controlled using the remote control.	The remote control is set to control the unit.	Press SOURCE/RECEIVER to set the remote control to control external devices (the key lights up in green).
	The corresponding remote control code is not set properly.	Set the remote control code again (p.133). Even if the remote control code is registered properly, some products may not respond to the remote control.
The MHL-compatible mobile device cannot be controlled using the remote control.	A remote control code for another playback device is assigned to V-AUX.	Reset the remote control code registered to V-AUX (p.139).
	The mobile device or its application is not externally controllable.	Directly operate the mobile device itself.
The remote control does not learn new functions.	The batteries of the remote control of the unit and/or the external device are weak.	Replace with new batteries.
	The distance between the two remote controls is not appropriate.	Place the remote controls at a proper distance (p.135).
	The signal coding or modulation of the other remote control is not compatible with the remote control.	Learning is impossible in this case.
	Memory capacity is full.	Clear unnecessary assignments to free some memory space for new functions (p.140).

Audio

Problem	Cause	Remedy	
	Another input source is selected.	Select an appropriate input source with the input selection keys.	
No sound.	Signals that the unit cannot reproduce are being input.	Some digital audio formats cannot be played back on the unit. To check the audio format of the input signal, use "Audio Signal" in the "Information" menu (p.128).	
	The cable connecting the unit and playback device is defective.	If there is no problem with the connection, replace with another cable.	
The volume cannot be increased.	The maximum volume is set.	Use "Max Volume" in the "Setup" menu to adjust the maximum volume (p.115).	
The volume cannot be increased.	A device connected to the output jacks of the unit is not turned on.	Turn on all devices connected to the output jacks of the unit.	
	The playback source does not contain a signal for the channel.	To check it, use "Audio Signal" in the "Information" menu (p.128).	
	The currently selected sound program/decoder does not use the speaker.	To check it, use "Test Tone" in the "Setup" menu (p.114).	
	Audio output of the speaker is disabled.	Perform "Auto Setup" (p.50) or use "Configuration" in the "Setup" menu to change the speaker settings (p.112).	
No sound is coming from a specific speaker.	The volume of the speaker is set too low.	Perform "Auto Setup" (p.50) or use "Level" in the "Setup" menu to adjust the speaker volume (p.114).	
	The speaker cable connecting the unit and the speaker is defective.	If there is no problem with the connection, replace with another speaker cable.	
	The speaker is malfunctioning.	To check it, replace with another speaker. If the problem persists, the unit may be malfunctioning.	
No sound is coming from the surround back speaker.	The extended surround is disabled.	Use "Extended Surround" in the "Option" menu to select a decoder to be used (p.97).	
	The playback source does not contain LFE or low-frequency signals.	To check it, set "Extra Bass" in the "Setup" menu to "On", in order to output the front channel low-frequency components from the subwoofer (p.113).	
No sound is coming from the subwoofer.	Subwoofer output is disabled.	Perform "Auto Setup" (p.50) or set "Subwoofer 1" or "Subwoofer 2" in the "Setup" menu to "Use" (p.113).	
	The volume of the subwoofer is too low.	Adjust the volume on the subwoofer.	
	The subwoofer has been turned off by its auto-standby function.	Disable the auto-standby function of the subwoofer or adjust its sensitivity level.	
	The TV does not support HDCP (High-bandwidth Digital Content Protection).	Refer to the instruction manuals for the TV and check the TV's specifications.	
No sound from the playback device (connected to the unit with HDMI).	The unit is set not to output audio input through HDMI jacks from the SPEAKERS terminals.	In "Audio Output" in the "Setup" menu, set "Amp" to "On" (p.119).	
	The number of devices connected to the HDMI OUT jack exceeds the limit.	Disconnect some of the HDMI devices.	

Problem	Cause	Remedy	
	The TV is set to output audio from the TV speakers.	Change the audio output setting on your TV so that the TV audio is output from the speakers connected to the unit.	
No sound from the TV (when HDMI Control is	A TV that does not support ARC is connected to the unit only with an HDMI cable.	Use a digital optical cable to make an audio connection (p.35).	
used).	(If the TV is connected to the unit with an audio cable) The TV audio input setting does not match the actual connection.	Use "TV Audio Input" in the "Setup" menu to select the correct audio input jack (p.119).	
(If you are trying to use ARC) ARC is disabled on the unit or TV.		Set "ARC" in the "Setup" menu to "On" (p.119). Also, enable ARC on the TV.	
No sound from the Zone2 TV (connected to the unit with HDMI).	The audio output from the HDMI OUT 2 (ZONE OUT) jack is disabled.	Set "Audio Output" in the "Setup" menu to "On" (p.124).	
Only the front speakers work on multichannel audio.	The playback device is set to output 2-channel audio (such as PCM) only.	To check it, use "Audio Signal" in the "Information" menu (p. 128). If necessary, change the digital audio output setting on the playback device.	
Noise/hum is heard.	The unit is too close to another digital or radio frequency device.	Move the unit further away from the device.	
Noise/Hulli is flearu.	The cable connecting the unit and playback device is defective.	If there is no problem with the connection, replace with another cable.	
The sound is distorted.	The volume of the unit is too high.	Turn down the volume. If "ECO Mode" in the "Setup" menu is set to "On", set it to "Off" (p.127).	
	A device connected to the unit's output jacks is not turned on.	Turn on all devices connected to the unit's output jacks.	
The sound is interrupted.	If the HDMI OUT 2 (ZONE OUT) jack is assigned to Zone2 or Zone4, HDMI audio output may be interrupted during some zone operations due to internal circuitry switching.	For details, see "Connecting an HDMI-compatible device to play back videos/audio" (p.90).	

Video

Problem	Cause	Remedy	
	Another input source is selected on the unit.	Select an appropriate input source with the input selection keys.	
	Another input source is selected on the TV.	Switch the TV input to display the video from the unit.	
No video.	The video signal output from the unit is not supported by the TV.	Set "MONITOR CHECK" in the "ADVANCED SETUP" menu to "YES" (p.131).	
	The cable connecting the unit and TV (or playback device) is defective.	If there is no problem with the connection, replace with another cable.	
	The input video signal (resolution) is not supported by the unit.	To check the information about the current video signal (resolution), use "Video Signal" in the "Information" menu (p.128). For information about video signals supported by the unit, see "HDMI signal compatibility" (p.157).	
No video from the playback device (connected to the unit with HDMI).	The TV does not support HDCP (High-bandwidth Digital Content Protection).	Refer to the instruction manuals for the TV and check the TV's specifications.	
	The number of devices connected to the HDMI OUT jack is over the limit.	Disconnect some of the HDMI devices.	
The menu of the unit is not displayed on the TV.	Another input source is selected on the TV.	Switch the TV input to display the video from the unit.	
	(If you are using 2 TVs in the main zone) Another TV is turned off when "HDMI OUT 1+2" is selected.	Select "HDMI OUT 1" or "HDMI OUT 2" to output the signals only to the TV you are using (p.61).	
The video is interrupted.	(If the HDMI OUT 2 jack is assigned to Zone2 or Zone4) HDMI audio output may be interrupted during some zone operations due to internal circuitry switching.	For details, see "Connecting an HDMI-compatible device to play back videos/audio" (p.90).	

FM/AM radio

Problem	Cause	Remedy	
	There is multi-path interference.	Adjust the FM antenna height or orientation, or place it in a different location.	
FM radio reception is weak or noisy.	Your area is too far from the FM station transmitter.	Set "FM Mode" in the "Option" menu to "Mono" to select monaural FM radio reception (p.98).	
	Tour area is too far norm the five station transmitter.	Use an outdoor FM antenna. We recommend using a sensitive multi-element antenna.	
AM radio reception is weak or noisy.	The noises may be caused by fluorescent lamps, motors, thermostats, or other electrical equipment.	It is difficult to completely eliminate noise. It may be reduced by using an outdoor AM antenna.	
		Select the station manually (p.70).	
	Your area is too far from the FM station transmitter.	Use an outdoor antenna. We recommend using a sensitive multi-element antenna.	
Radio stations cannot be selected automatically.		Adjust the AM antenna orientation.	
	The AM radio signal is weak.	Select the station manually (p.70).	
		Use an outdoor AM antenna. Connect it to the ANTENNA (AM) jack together with the supplied AM antenna.	
AM radio stations cannot be registered as presets.	Auto Preset has been used.	Auto Preset is for registering FM radio stations only. Register AM radio stations manually (p.71).	

USB and network

Problem	Cause	Remedy		
The unit does not detect the USB device.	The USB device is not connected to the USB jack securely.	Turn off the unit, reconnect your USB device, and turn the unit on again.		
The unit does not detect the OSB device.	The file system of the USB device is not FAT16 or FAT32.	Use a USB device with FAT16 or FAT32 format.		
Folders and files in the USB device cannot be viewed.	The data in the USB device is protected by the encryption.	Use a USB device without an encryption function.		
The files in the USB device cannot be played back continuously.	Files not supported by the unit exist in the selected folder.	If the unit detects a series of unsupported files (such as images and hidden files) during playback, playback stops automatically. Do not store the unsupported files in the playback folder.		
The network feature does not function.	The network parameters (IP address) have not been obtained properly.	Enable the DHCP server function on your router and set "DHCP" in the "Setup" menu to "On" on the unit (p.120). If you want to configure the network parameters manually, check that you are using an IP address which is not used by other network devices in your network (p.120).		
	The media sharing setting is not correct.	Configure the sharing setting and select the unit as a device to which music contents are shared (p.80).		
The unit does not detect the PC.	Some security software installed on your PC is blocking the access of the unit to your PC.	Check the settings of security software installed on your PC.		
The unit does not detect the PC.	The unit and PC are not in the same network.	Check the network connections and your router settings, and then connect the unit and the PC to the same network.		
	The MAC address filter is enabled on the unit.	In "MAC Address Filter" in the "Setup" menu, disable the MAC address filter or specify the MAC address of your PC to allow it to access to the unit (p.121).		
The files in the PC cannot be viewed or played back.	The files are not supported by the unit or the media server.	Use the file format supported by both the unit and the media server. For information about the file formats supported by the unit, see "Playing back music stored on media servers (PCs/NAS)" (p.80).		
The files in the PC cannot be played back continuously.	Files not supported by the unit exist in the selected folder.	If the unit detects a series of unsupported files (such as images and hidden files) during playback, playback stops automatically. Do not store the unsupported files in the playback folder.		
	The selected Internet radio station is currently not available.	There may be a network problem at the radio station, or the service may have been stopped. Try the station later or select another station.		
The Internet radio cannot be played.	The selected Internet radio station is currently broadcasting silence.	Some Internet radio stations broadcast silence at certain of times of the day. Try the station later or select another station.		
	Access to the network is restricted by the firewall settings of your network devices (such as the router).	Check the firewall settings of your network devices. The Internet radio can be played only when it passes through the port designated by each radio station. The port number varies depending on the radio station.		
The application for amountaining (Application)	The unit and smartphone/tablet are not in the same network.	Check the network connections and your router settings, and then connect the unit and smartphone/tablet to the same network.		
The application for smartphone/tablet "AV CONTROLLER" does not detect the unit.	The MAC address filter is enabled on the unit.	In "MAC Address Filter" in the "Setup" menu, disable the MAC address filter or specify the MAC address of your smartphone/tablet to allow it to access to the unit (p.121).		
Firmware update via the network is failed.	It may not be possible depending on the condition of the network.	Update the firmware via the network again or use a USB memory device (p.132).		

Error indications on the front display

Message	Cause	Remedy
Access denied	Access to the PC is denied.	Configure the sharing settings and select the unit as a device to which music contents are shared (p.80).
	The unit cannot access the USB device.	Turn off the unit and reconnect your USB device. If the problem persists, try another USB device.
	The unit cannot access the iPod.	Turn off the iPod and turn it on again.
Access error	The connected iPod is not supported by the unit.	Use an iPod supported by the unit (p.73).
	There is a problem with the signal path from the network to the unit.	Make sure your router and modem are turned on.
	There is a problem with the signal path from the network to the unit.	Check the connection between the unit and your router (or hub) (p.46).
Check SP Wires	The speaker cables short circuit.	Twist the bare wires of the cables firmly and connect to the unit and speakers properly.
Internal Error	An internal error has occurred.	Contact the nearest authorized Yamaha dealer or service center.
MHL Overloaded	An overcurrent is flowing through the MHL-compatible mobile device.	Turn off the unit and check the connection between the unit and mobile device.
No content	There are no playable files in the selected folder.	Select a folder that contains files supported by the unit.
No device	The unit cannot detect the USB device.	Turn off the unit and reconnect your USB device. If the problem persists, try another USB device.
No device	The unit cannot detect the iPod.	Turn off the iPod and then turn it on again.
Please wait	The unit is preparing for connecting to the network.	Wait until the message disappears. If the message stays more than 3 minutes, turn off the unit and turn it on again.
RemID Mismatch	The remote control IDs of the unit and the remote control are not identical.	Change the remote control ID of the unit or the remote control (p.130).
Remote Off	The unit cannot be operated from remote control because the remote control sensor on the main unit is turned off.	Use the controls on the front panel. To use the remote control, set "REMOTE SENSOR" in the "ADVANCED SETUP" menu to "ON" (p.130).
	The unit cannot play back the songs stored on the USB device for some reasons.	Check the song data. If it cannot be played on another device, the song data may be defective.
Unable to play	The unit cannot play back the songs stored on the iPod for some reason.	Check the song data. If it cannot be played on the iPod itself, the song data or storage area may be defective.
	The unit cannot play back the songs stored on the PC for some reason.	Check if the format of files you are trying to play is supported by the unit. For information about the formats supported by the unit, see "Playing back music stored on media servers (PCs/NAS)" (p.80). If the unit supports the file format, but still cannot play back any files, the network may be overloaded with heavy traffic.
USB Overloaded	An overcurrent is flowing through the USB device.	Turn off the unit and reconnect your USB device. If the problem persists, try another USB device.
Version error	Firmware update is failed.	Update the firmware again.

Glossary

Audio information

Audio decoding format

Dolby Digital

Dolby Digital is a compressed digital audio format developed by Dolby Laboratories, Inc. that supports 5.1-channel audio. This technology is used for audio on most DVD discs.

Dolby Digital EX

Dolby Digital EX creates total 6.1-channel audio from 5.1-channel sources that are recorded with Dolby Digital Surround EX. This decoder adds a surround back sound to the original 5.1-channel sound.

Dolby Digital Plus

Dolby Digital Plus is a compressed digital audio format developed by Dolby Laboratories, Inc. that supports 7.1-channel audio. Dolby Digital Plus remains fully compatible with the existing multichannel audio systems that support Dolby Digital. This technology is used for audio on BD (Blu-ray discs).

Dolby Pro Logic II

Dolby Pro Logic II enables 5-channel playback from 2-channel sources. There are three modes available: "Music mode" for music sources, "Movie mode" for movie sources, and "Game mode" for game sources.

Dolby Pro Logic IIx

Dolby Pro Logic IIx enables 7-channel playback from 2-channel or multichannel sources. There are three modes available: "Music mode" for music sources, "Movie mode" for movie sources and "Game mode" for game sources (for 2-channel sources only).

Dolby TrueHD

Dolby TrueHD is an advanced lossless audio format developed by Dolby Laboratories, Inc. to offer a high-definition home theater experience with the quality of the studio master. Dolby TrueHD can carry up to eight channels of 96 kHz/24-bit audio (up to six channels of 192 kHz/24-bit audio) simultaneously. This technology is used for audio on BD (Blu-ray discs).

DTS 96/24

DTS 96/24 is a compressed digital audio format that supports 5.1-channel and 96 kHz/24-bit audio. This format remains fully compatible with the existing multichannel audio systems that support DTS Digital Surround. This technology is used for music DVDs, etc.

DTS Digital Surround

DTS Digital Surround is a compressed digital audio format developed by DTS, Inc. that supports 5.1-channel audio. This technology is used for audio on most DVD discs.

DTS-ES

DTS-ES creates total 6.1-channel audio from 5.1-channel sources that are recorded with DTS-ES. This decoder adds a surround back sound to the original 5.1-channel sound. In the DTS-ES Matrix 6.1 format, a surround back sound is recorded in the surround channels, and in the DTS-ES Discrete 6.1 format, a discrete surround back channel is recorded.

DTS Express

DTS Express is a compressed digital audio format that supports 5.1-channel audio and allows a higher compression rate than the DTS Digital Surround format developed by DTS, Inc. This technology is developed for audio streaming services on the Internet and secondary audio on BD (Blu-ray discs).

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is a compressed digital audio format developed by DTS, Inc. that supports 7.1-channel and 96 kHz/24-bit audio. DTS-HD High Resolution Audio remains fully compatible with the existing multichannel audio systems that support DTS Digital Surround. This technology is used for audio on BD (Blu-ray discs).

DTS-HD Master Audio

DTS-HD Master Audio is an advanced lossless audio format developed to offer a high-definition home theater experience with the quality of the studio master by DTS, Inc. DTS-HD Master Audio can carry up to eight channels of 96 kHz/24-bit audio (up to six channels of 192 kHz/24-bit audio) simultaneously. This technology is used for audio on BD (Blu-ray discs).

DTS Neo:6

DTS Neo:6 enables 6-channel playback from 2-channel sources. There are two modes available: "Music mode" for music sources and "Cinema mode" for movie sources. This technology provides discrete full-bandwidth matrix channels of surround sound.

DSD (Direct Stream Digital)

DSD (Direct Stream Digital) technology stores audio signals on digital storage media, such as SACD (Super Audio CDs). The signals are stored at a high-frequency sampling rate of 2.8224 MHz. The highest frequency response is equal to or higher than 100 kHz, with a dynamic range of 120 dB. This technology offers better audio quality than that used for CDs.

FLAC

FLAC is a file format for lossless audio data compression. FLAC is inferior to lossy compressed audio formats in compression rate but provides higher audio quality.

MP3

One of the compressed digital audio format used by MPEG. With psychoacoustic technologies, this compression method achieves a high compression rate. Reportedly, it is capable of compressing data quantity by about 1/10 maintaining a certain level of audio quality.

MPEG-4 AAC

An MPEG-4 audio standard. It is used for mobile telephones, portable audio players, and audio streaming services on Internet because it allows a high compression rate of data while maintaining better audio quality than MP3.

PCM (Pulse Code Modulation)

PCM is a signal format under which an analog audio signal is digitized, recorded, and transmitted. This technology is the basis of all other audio format. This technology is used as a lossless audio format called Linear PCM for audio on a variety of media, including CDs and BD (Blu-ray discs).

Sampling frequency/Quantization bit

Sampling frequency and quantization bits indicate the quantity of information when an analog audio signal is digitized. These values are noted as in the following example: "48 kHz/24-bit".

- · Sampling frequency
- Sampling frequency (the number of times the signal is sampled per second) is called the sampling rate. When the sampling frequency is higher, the range of frequencies that can be played back are wider.
- · Quantization bit

The number of quantization bits indicate the degree of accuracy when converting the sound level into a numeric value. When the number of quantized bits is higher, the expression of the sound level is more accurate.

WAV

Windows standard audio file format, which defines the method of recording the digital data obtained by converting audio signals. By default, the PCM method (no compression) is used, but you can also use other compression methods.

WMA (Windows Media Audio)

One of the compressed digital audio formats developed by Microsoft Corporation. With psychoacoustic technologies, this compression method achieves a high compression rate. Reportedly, it is capable of compressing data quantity by about 1/20 maintaining a certain level of audio quality.

Others

Bi-amplification connection (Bi-amp)

A bi-amplification connection uses two amplifiers for a speaker. When you use the bi-amplification connection, the unit drives the tweeter and woofer in a speaker with the discrete amplifiers. As a consequence, the tweeter and woofer provide clear audio signal without the interference.

LFE (Low Frequency Effects) 0.1 channel

This channel reproduces low-frequency bass signals and has a frequency range from 20 Hz to 120 Hz. This channel is added to the channels for all bands with Dolby Digital or DTS to enhance low frequency audio effects. This channel is labeled 0.1 because it is limited to only low frequency audio.

Lip sync

Video output sometimes lags behind audio output due to the complexity of signal processing caused by an increase in video signal capacity. Lip sync is a technique for automatically correcting the timing lag between audio and video output.

HDMI and video information

Component video signal

With the component video signal system, the video signal is separated into the Y signal for luminance and the Pb and Pr signals for chrominance. Color can be reproduced more faithfully with this system because each of these signals is independent.

Composite video signal

With the composite video signal system, color, brightness, and synchronization data signals are combined and transmitted with a single cable.

Deep Color

Deep Color is a technology that HDMI specification supports. Deep Color increases the number of available colors within the boundaries defined by the RGB or YCbCr color space. Conventional color systems process the color using 8 bits. Deep Color processes the color with 10, 12, or 16 bits. This technology allows HDTVs and other displays to increase from millions of colors to billions of colors and eliminate on-screen color banding for smooth tonal transitions and subtle gradations between colors.

HDMI

HDMI (High-Definition Multimedia Interface) is the world-wide standard interface for digital audio/video signal transmission. This interface transmits both digital audio and digital video signals using a single cable without any loss. HDMI complies with HDCP (High-bandwidth Digital Content Protection) and provides a secure audio/video interface. For further information on HDMI, visit the HDMI website at "http://www.hdmi.org/".

MHL

MHL (Mobile High-definition Link) is the interface standard for high-speed digital video signal transmission that is developed for mobile devices. This interface transmits both digital audio and digital video signals from mobile devices (such as smartphones) using a single cable with any loss. As with HDMI, MHL complies with HDCP (High-bandwidth Digital Content Protection).

S-video signal

With the S-video signal system, the video signal is separated into the Y signal for the luminance and the C signal for the chrominance through the S-video cable. This technology achieves more accurate color reproduction than the composite video signal system.

x.v.Color

"x.v.Color" is a technology that the HDMI specification supports. It is a more extensive color space than sRGB and allows the expression of colors that were not hitherto possible. While remaining compatible with the color gamut of sRGB standards, "x.v.Color" expands the color space, and thus can produce more vivid, natural images.

Yamaha technologies

CINEMA DSP (Digital Sound Field Processor)

Since the Dolby Surround and DTS systems were originally designed for use in movie theaters, their effect is best experienced in a theater that has many speakers designed for acoustic effects. Since home conditions (such as room size, wall material, and number of speakers) can differ so widely, it is inevitable that there are differences in the sound that you hear. Based on a wealth of actually measured data, CINEMA DSP, Yamaha's original DSP technology provides the audiovisual experience of a movie theater in your own home.

CINEMA DSP 3D

The actually measured sound field data contain the information of the height of the sound images. CINEMA DSP 3D mode achieves the reproduction of the accurate height of the sound images so that it creates the accurate and intensive 3D sound fields in a listening room.

CINEMA DSP HD3

The actually measured sound field data contain the information of the height of the sound images. CINEMA DSP HD³ feature achieves the reproduction of the accurate height of the sound images so that it creates the accurate and intensive stereoscopic sound fields in a listening room.

Compressed Music Enhancer

The Compressed Music Enhancer feature compensates for missing harmonics in compression music formats (such as MP3). As a result, this technology provides improved performance for the overall sound system.

SILENT CINEMA

Yamaha has developed a natural, realistic sound effect DSP algorithm for headphones. Parameters for headphones have been set for each sound program, so that accurate representations of all the sound programs can be enjoyed on headphones.

Virtual CINEMA DSP

Virtual CINEMA DSP allows the system to virtually reproduce the sound field of the surround speakers with front left and right speakers. Even if the surround speakers are not connected, the unit creates the realistic sound field in a listening room.

Virtual Presence Speaker (VPS)

Virtual Presence Speaker allows the system to virtually reproduce the height of the 3D sound field without presence speakers. Even if the presence speakers are not connected, the unit creates the 3D sound field in your room.

Video signal flow

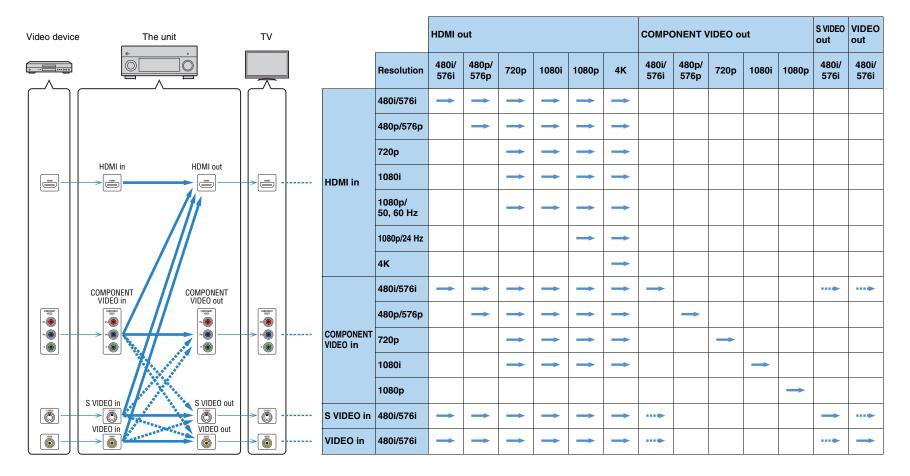
Video signals input from a video device to the unit are output to a TV as shown below.

(dotted line) is always available. (dotted line) is available only when "Analog to Analog Conversion" (p.117) in the "Setup" menu is set to "On" (default).

Video conversion table



- You can select the resolution and the aspect ratio applied to HDMI-output video processing in "Video Mode" (p.117) in the "Setup" menu.
- The unit does not convert 480-line and 576-line video signals interchangeably.



Multi-zone output

Audio output

	Using the unit's internal amplifier (p.32)		Usin	Using an external amplifier (p.88)		p.88)
Out	EXTRA SP	1-2 jacks	ZONE O	UT jacks	HDMI (ZONE C	OUT 2 OUT) jack
In	Zone2	Zone3	Zone2	Zone3	Zone2 (*1)	Zone4 (*2)
Digital audio (HDMI)	*3)		*3)		*3)	*4)
Digital audio (COAXIAL/OPTICAL)	(*5)		(*5)		→ (*5)	
Analog audio (AUDIO)	†	†	†	†	→	
USB (including iPod)	†	†	†	†	→	
Network sources	→	→	†	→	→	
TUNER	†	†	†	†	\rightarrow	

->: Available

■ Video output

Out	MONITOR OUT/ZONE OUT jacks (*6)			HDMI OUT 2 (ZONE OUT)	
In	COMPONENT VIDEO	S VIDEO	VIDEO	jack (*7)	
	Zone2/3	Zone2/3	Zone2/3	Zone2	Zone4
HDMI video				→	→
Component video	+				
S-video		\rightarrow			
Composite video			\rightarrow		
On-screen display (browse/playback)	*8)	(*8)	*8)	†	

->: Available

^{*1} Available when "HDMI OUT2 Assign" (p.124) in the "Setup" menu is set to "Zone2" (Audio Output: On)

^{*2} Available when "HDMI OUT2 Assign" (p.124) in the "Setup" menu is set to "Zone4"

^{*3} Available when 2-channel PCM signals are input (stereo output [down mixed to 2-channels] when the input source selected in the main zone is selected)

^{*4} HDMI audio pass-through (stereo output [down mixed to 2-channels] when the input source selected in the main zone is selected)

^{*5} Available when 2-channel PCM signals are input

 $^{^{\}star}6$ Available when "Monitor Out Assign" (p.123) in the "Setup" menu is set to "Zone2" or "Zone3"

^{*7} Available when "HDMI OUT2 Assign" (p.124) in the "Setup" menu is set to "Zone2" or "Zone4"

^{*8} Not available in Zone3 when "HDMI OUT2 Assign" (p.124) in the "Setup" menu is set to "Zone2"

Information on HDMI

HDMI Control

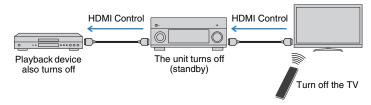
HDMI Control allows you to operate external devices via HDMI. If you connect a TV that supports HDMI Control to the unit with an HDMI cable, you can control the unit (such as power and volume) with TV remote control operations. You can also control playback devices (such as HDMI Control-compatible BD/DVD players) connected to the unit with an HDMI cable.

For details on connections, see "Connecting a TV" (p.35) and "Connecting video devices (such as BD/DVD players)" (p.41).

Operations available from the TV's remote control

- Standby synchronization
- Volume control including mute
- Switching to input audio from the TV when the TV input is switched to its built-in tuner
- Switching to input video/audio from the selected playback device
- Switching between audio output devices (the unit or TV speaker)

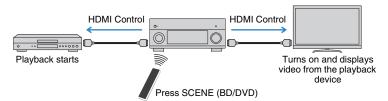
(Example)



Operations available from the unit's remote control

- Starting playback on the playback device and turning on the TV with a scene selection (p.62)
- Switching the TV input to display the on-screen menu (when ON SCREEN is pressed)
- Controlling the playback device (playback and menu operations) without registering remote control codes (p.134)

(Example)



To use HDMI Control, you need to perform the following HDMI Control link setup after connecting the TV and playback devices.



- This setup is required every time you add a new HDMI Control-compatible device to your system.
- Turn on the unit, TV, and playback devices.
- 2 Enable HDMI Control on the unit, TV, and playback devices (such as HDMI Control-compatible BD/DVD players).

To enable HDMI Control on the unit, set "HDMI Control" (p.119) in the "Setup" menu to "On" and configure the related items ("TV Audio Input", "ARC", and "Standby Sync").

- Turn off the main power of the TV and then turn off the unit and playback devices.
- Turn on the unit and playback devices and then turn on the TV.
- Switch the TV input to display the video from the unit.
- 6 Check the followings.

On the unit: The input to which the playback device is connected is selected. If not, select the input source manually.

On the TV: The video from the playback device is displayed.

Check that the unit is properly synchronized with the TV by turning off the TV or adjusting the TV volume with the TV remote control.



- If HDMI Control does not work properly, try unplugging the TV in Step 3 and plugging in the TV again in Step 4. It may solve the problem. Also, HDMI Control may not work if the number of connected devices exceeds the limit. In this case, disable HDMI Control on the devices not in use.
- If the unit is not synchronized to the TV's power operations, check the priority of the audio output setting on
- · We recommend using TV and playback devices from the same manufacturer so that HDMI Control works more effectively.

HDMI signal compatibility

Audio signals

Audio signal type	Audio signal format	Compatible media (example)
2ch Linear PCM	2ch, 32 to 192 kHz, 16/20/24 bit	CD, DVD-Video, DVD-Audio
Multichannel Linear PCM	8ch, 32 to 192 kHz, 16/20/24 bit	DVD-Audio, BD (Blu-ray disc), HD DVD
DSD	2 to 5.1ch, 2.8224 MHz, 1 bit	SACD
Bitstream	Dolby Digital, DTS	DVD-Video
Bitstream (High definition audio)	Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS Express	BD (Blu-ray disc), HD DVD

Video signals

The unit is compatible with the video signals of the following resolutions:

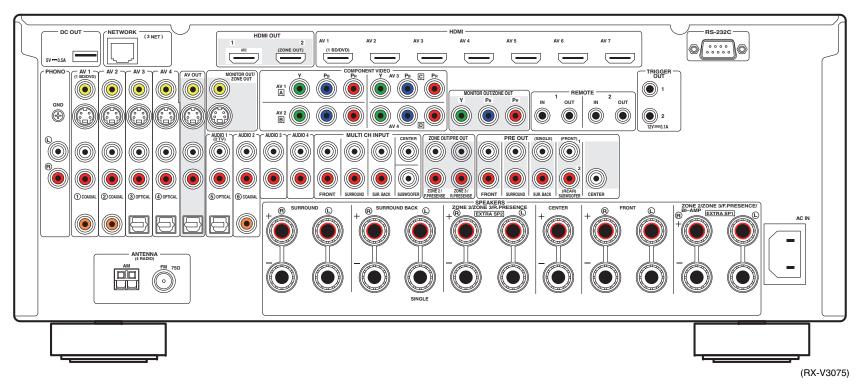
VGA

- 720p/60 Hz, 50 Hz
- 480i/60 Hz
- 1080i/60 Hz. 50 Hz
- 576i/50 Hz
- 1080p/60 Hz, 50 Hz, 30 Hz, 25 Hz, 24 Hz
- 480p/60 Hz
- 4K/30 Hz, 25 Hz, 24 Hz
- 576p/50 Hz



- . When CPPM copy-protected DVD-Audio is played back, video/audio signals may not be output, depending on the type of the DVD player.
- The unit is not compatible with HDCP-incompatible HDMI or DVI devices. For details, refer to the instruction manual for each device.
- To decode audio bitstream signals on the unit, set the input source device appropriately so that the device outputs the bitstream audio signals directly (does not decode the bitstream signals on the playback device). For details, refer to the instruction manual for the playback device.

Reference diagram (rear panel)





• The area around the video/audio output jacks is marked in white on the actual product to prevent improper connections.

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Specifications

Input jacks

• Analog Audio

Audio x 10 (AV 1–4, AUDIO 1–4, PHONO, V-AUX)
MULTI CH INPUT x 1 (8 ch)

(FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER)

- Digital Audio (Supported frequencies: 32 kHz to 96 kHz)
 Optical x 4 (AV 3–4, AUDIO 1, V-AUX)
 Coaxial x 3 (AV 1–2, AUDIO 2)
- Video

Composite x 5 (AV 1-4, V-AUX)

S-video x 4 (AV 1-4)

Component x 4 (AV 1-4)

• HDMI Input

HDMI x 8 (AV 1-7, V-AUX*)

- * V-AUX: MHL input compatible
- Others

USB x 1 (USB2.0)

NETWORK x 1 (100Base-TX/10Base-T)

Output jacks

- Analog Audio
- Speaker Out x 11 (9 ch) (FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, EXTRA SP 1 L/R*1, EXTRA SP 2 L/R*2)
- *1 Note: Assignment is possible [ZONE2, ZONE3, F.PRESENCE, BI-AMP (FRONT L/R)]
- *2 Note: Assignment is possible [ZONE2, ZONE3, R.PRESENCE]
- Subwoofer Out x 2
- (SUBWOOFER 1-2, Stereo/Front&Rear/Monox2)
- Audio x 1 (AV OUT)

[RX-V3075]

- Pre Out x 11 (FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, F.PRESENCE L/R^{*3}, R.PRESENCE L/R^{*4})
- *3 Note: barter to ZONE2
- *4 Note: barter to ZONE3

[RX-V2075]

- Pre Out x 7 (FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R)
- ZONE OUT x 2 (ZONE2/ZONE3)
- Digital Audio

Optical x 1 (AV OUT)

Video

MONITOR OUT/ZONE OUT

- Composite x 1
- S-video x 1
- Component x 1

AV OUT

- Composite x 1
- S-video x 1
- HDMI Output

HDMI OUT x 2 (HDMI OUT 1-2*5)

*5 barter to ZONE OUT (ZONE2/ZONE4)

Other jacks

- YPAO MIC x 1
- REMOTE IN x 2
- REMOTE OUT x 2
- TRIGGER OUT x 2
- RS-232C x 1
- DC OUT x 1

HDMI

- HDMI features: Deep Color, "x.v.Color," Auto Lip Sync, ARC (Audio Return Channel), 3D, 4K
- Video Format (Repeater Mode)

- VGA
- 480i/60 Hz
- 576i/50 Hz
- 480p/60 Hz
- 576p/50 Hz
- 720p/60 Hz, 50 Hz
- 1080i/60 Hz, 50 Hz
- 1080p/60 Hz, 50 Hz, 30 Hz, 25 Hz, 24 Hz
- 4K/30 Hz, 25 Hz, 24 Hz
- Audio Format
- Dolby TrueHD
- Dolby Digital Plus
- Dolby Digital
- DTS-HD Master Audio
- DTS-HD High Resolution Audio
- DTS Express
- DTS
- DSD 2-ch to 6-ch
- PCM 2-ch to 8-ch (Max. 192 kHz/24-bit)
- Content Protection: HDCP compatible
- Link Function: CEC supported

MHL

- Video Format (Repeater Mode)
- VGA
- 480i/60 Hz
- 576i/50 Hz
- 480p/60 Hz
- 576p/50 Hz
- 720p/60 Hz, 50 Hz
- 1080i/60 Hz, 50 Hz
- 1080p/30 Hz, 25 Hz, 24 Hz
- Audio Format
- PCM 2-ch to 8-ch (Max. 192 kHz/24-bit)
- Current Supply Capacity: 1.0 A

TUNER

Analog Tuner
 FM/AM x 1 (TUNER)

USB

- Capable of iPod, Mass Storage Class USB Memory
- Current Supply Capacity: 2.1 A

Network

- PC Client Function
- Compatible with DLNA ver. 1.5
- · AirPlay supported
- Internet Radio

Compatible Decoding Formats

- Decoding Format
- Dolby TrueHD, Dolby Digital Plus
- Dolby Digital, Dolby Digital EX
- DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS Express
- DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1
- DTS Digital Surround
- Post Decoding Format
- Dolby Pro Logic
- Dolby Pro Logic II Music, Dolby Pro Logic II Movie, Dolby Pro Logic II Game
- Dolby Pro Logic IIx Music, Dolby Pro Logic IIx Movie,
 Dolby Pro Logic IIx Game
- DTS Neo:6 Music, DTS Neo:6 Cinema

Audio Section

 Rated Output Power (2-channel driven) [RX-V3075]

150 W+150 W
150 W
150 W+150 W
150 W+150 W
150 W+150 W
165 W+165 W
165 W
165 W+165 W
165 W+165 W
165 W+165 W
140 W+140 W
140 W
140 W+140 W
140 W+140 W
140 W+140 W
155 W+155 W
155 W
155 W+155 W
155 W+155 W
155 W+155 W

Rated Output Power (1-channel driven) [RX-V3075]	
(1 kHz, 0.9% THD, 8 Ω)	
Front L/R	. 185 W/ch
Center	. 185 W/ch
Surround L/R	. 185 W/ch
Surround Back L/R	. 185 W/ch
Front Presence L/R	. 185 W/ch
[RX-V2075]	
(1 kHz, 0.9% THD, 8 Ω)	
Front L/R	. 175 W/ch
Center	. 175 W/ch
Surround L/R	. 175 W/ch
Surround Back L/R	. 175 W/ch
Front Presence L/R	. 175 W/ch
 Maximum Effective Output Power (1-channel driven) (JEITA, 1 kHz, 10% THD, 8 Ω) [China model] [RX-V3075] 	
Front L/R	. 230 W/ch
Center	.230 W/ch
Surround L/R	.230 W/ch
Surround Back L/R	.230 W/ch
Front Presence L/R	.230 W/ch
[RX-V2075]	
Front L/R	. 220 W/ch
Center	.220 W/ch
Surround L/R	.220 W/ch
Surround Back L/R	.220 W/ch
Front Presence L/R	.220 W/ch
Dynamic Power (IHF)	
[RX-V3075] Front L/R (8/6/4/2 Ω)175/220/	295/410 W
[RX-V2075] Front L/R (8/6/4/2 Ω)165/210/3	
, ,	200/4U0 W
Damping Factor Front L/R, 1 kHz, 8 Ω15	50 or more

$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$
• Output Level / Output Impedance AV OUT
Frequency Response AUDIO 2 etc. (10 Hz to 100 kHz) +0/-3 dB RIAA Equalization Deviation
PHONO (20 Hz to 20 kHz)0±0.5 dB • Total Harmonic Distortion PHONO to AV OUT
Signal to Noise Ratio (IHF-A Network) PHONO to AV OUT (Input Shorted 5 mV) [China model]86 dB or more [Australia model]81 dB or more AUDIO 2 etc. to Speaker Out (Pure Direct, Input Shorted 250 mV)
• Residual Noise (IHF-A Network) Front L/R (Speaker Out)
Channel Separation PHONO (Input Shorted, 1 kHz/10 kHz) 60 dB/55 dB or more AUDIO 2 etc. (Input 5.1 kΩ Shorted, 1 kHz/10 kHz)

Tone Control Characteristics
Main Zone
Bass Boost/Cut±6.0 dB/50 Hz (0.5 dB Step)
Bass Turnover
Treble Boost/Cut±6.0 dB/20 kHz (0.5 dB Step)
Treble Turnover
Zone2/Zone3
Bass Boost/Cut±10 dB/50 Hz (2 dB Step)
Bass Turnover
Treble Boost/Cut±10 dB/50 Hz (2 dB Step)
Treble Turnover
Filter Characteristics
(fc=40/60/80/90/100/110/120/160/200 Hz)
H.P.F. (Front, Center, Surround, Surround Back: Small)
L.P.F. (Subwoofer)24 dB/oct.
Video Section
Video Signal TypePAL
Video Signal Type (Video Conversion)NTSC/PAL
Video Signal Level
Composite
S-video
Y
C (PAL) 0.3 Vp-p/75 Ω
Component
Y
Pb/Pr 0.7 Vp-p/75 Ω
 Video Maximum Input Level (Video Conversion Off)
1.5 Vp-p or more
• Signal to Noise Ratio (Video Conversion Off) 60 dB or more
 Monitor Out Frequency Response (Video Conversion Off)
Component (MONITOR OUT/ZONE OUT)
5 Hz to 100 MHz, ±3 dB
FM Section
• Tuning Range 87.50 MHz to 108.00 MHz

• 50 dB Quiet Sensitivity (IHF, 1 kHz, 100% MOD.) Mono3 µV (20.8 dBf)
Signal to Noise Ratio (IHF) Mono/Stereo72 dB/70 dB
Harmonic Distortion (IHF, 1 kHz)
Mono/Stereo
ullet Antenna Input
AM section
Tuning Range531 kHz to 1611 kHz
General
Power Supply
[China model] AC 220 V, 50 Hz
[Australia model]AC 240 V, 50 Hz
Power Consumption490 W
Standby Power Consumption
HDMI Control Off, Standby Through Off 0.3 W (Typical)
HDMI Control On, Standby Through On 5.0 W (Typical)
HDMI Control Off, Standby Through On (AV 1, No Signals)
Network Standby On
• Dimensions (W x H x D)
* Including legs and protrusions
Weight
[RX-V3075]
[China model]19.5 kg (43.0 lbs)
[Australia model]17.8 kg (39.2 lbs)
[RX-V2075]17.0 kg (37.5 lbs)
* Specifications are subject to change without notice

^{*} Specifications are subject to change without notice.

Index

Symbols Exclamation mark (!) 141 Lock icon (126	9ch +RP (Power Amp Assign, Setup menu) 111 9ch +RP (speaker configuration) 27 9ch Stereo (sound program) 67	Auto Setup (Speaker, Setup menu) 50 Auto/Manual Select (Lipsync, Setup menu) 115 Automatic speaker setting optimization 50
Exclamation mark (!) 141	9ch +RP (speaker configuration) 27	Auto/Manual Select (Lipsync, Setup menu) Automatic speaker setting optimization 50 Automatic station preset (FM radio) 72 AutoPowerStdby (ECO, Setup menu) 127 AV OUT jack 13 B Backup/recovery of the settings 131 Banana plug 23 Basic playback operation 61 Basic speaker configuration 19 Bass (Tone Control, Option menu) 96 Bi-amp speaker connection 32 Bitrate (Audio Signal, Information menu) 128 Bitstream 157 Brightness (Video Mode, Setup menu) 118 C CAT-5 cable 46 Cellar Club (sound program) 67 Center (Speaker, Setup menu) 112 Center Image (Sound Program menu) 106 Center Width (Sound Program menu) 106 Chamber (sound program) 67 Channel (Audio Signal, Information menu) 128 Check SP Wires (error indication) 150 Check Sur. (YPAO error message) 59 Church in Freiburg (sound program) 67 Church in Royaumont (sound program) 67 CINEMA DSP 3D 65 CINEMA DSP 3D Mode (Option menu) 96
9.2+1-channel system 19 9.2-channel system 19, 20 9ch +1ZONE (Power Amp Assign, Setup menu) 111 9ch +1ZONE (speaker configuration) 30 9ch +FRONT (Power Amp Assign, Setup menu) 111 9ch +FRONT (speaker configuration) 28	Audio Output (HDMI, Setup menu) 119 Audio Return Channel (ARC) 35 Audio Select (Option menu) 98 Audio Signal (Information menu) 128 Auto Power Standby (ECO, Setup menu) 127 Auto Preset (FM radio) 72	CINEMA DSP HD ³ 65 CLASSICAL (sound program subcategory) 67 Clear Preset (FM/AM radio) 72 Clearing (remote control) 139 COAXIAL jack 34 Component video cable 34

COMPONENT VIDEO jack 34 Composite video connection (video device) 42 Compressed Music Enhancer 69 Configuration (Speaker, Setup menu) 112 Contrast (Video Mode, Setup menu) 118 Crossover frequency setting (subwoofer) 50 D DC OUT (Function, Setup menu) 126 DC OUT jack 13 Decode Type (Sound Program menu) 105 Decoder Mode (Input menu) 100 Decoder Mode (Input menu) 100 Decoder Off (front display information) 94 Default Gateway (IP Address, Setup menu) 120 Default Gateway (Network, Information menu) 129 Default setting restoration 131 Delay Enable (Lipsync, Setup menu) 115 Detail (Load, Scene menu) 103 Detail Enhancement (Video Mode, Setup menu) 118 Device Control (Load, Scene menu) 102 DHCP (IP Address, Setup menu) 120 Dialog Adjust (Option menu) 96 Dialog Lift (Dialog Adjust, Option menu) 96 Dialogue (Audio Signal, Information menu) 128 Dialogue Adjust (Option menu) 96 Dialogue Level (Dialogue Adjust, Option menu) 96 Dialogue Lift (Dialogue Adjust, Option menu) 96 Dialogue Loevel (Dialogue Adju	Distance (Speaker, Setup menu) 113 Distance (YPAO measurement result) 57 DLNA 80 DMC (Digital Media Controller) 101 DMC Control (Input menu) 101 DNS Server (IP Address, Setup menu) 120 DNS Server (Network, Information menu) 129 Dolby Digital EX (Extended Surround) 97 Dolby Pro Logic (surround decoder) 68 Dolby Pro Logic II Movie (surround decoder) 68 Dolby Pro Logic II Movie (surround decoder) 68 Dolby Pro Logic II Movie (surround decoder) 68 Dolby Pro Logic IIX Game (surround decoder) 68 Dolby Pro Logic IIX Movie (Extended Surround) 97 Dolby Pro Logic IIX Movie (Extended Surround) 97 Dolby Pro Logic IIX Movie (Extended Surround) 97 Dolby Pro Logic IIX Music (surround decoder) 68 Drama (sound program) 66 DSD (Direct Stream Digital) 151 DSP Level (Sound Program menu) 105 DSP Program (front display information) 94 DTS Neo:6 Cinema (surround decoder) 68 DTS Neo:6 Music (surround decoder) 68 DTS-ES (Extended Surround) 97 Dynamic Range (Sound, Setup menu) 115 E ECO (Setup menu) 127 ECO Mode (ECO, Setup menu) 127 Edge Enhancement (Video Mode, Setup menu) 118 Enhancer (Option menu) 97 ENHANCER (sound mode) 69 ENTERTAINMENT (sound program subcategory) 66 Erasing (remote control) 140 Error indication (front display) 150 EX/ES (Extended Surround, Option menu) 97 Extended Surround (Option menu) 97 Extended Surround (Option menu) 97 External device control (remote control) 133 External device operation key (remote control)	External power amplifier 33, 88 Extra Bass (Speaker, Setup menu) 113 F Filter (MAC Address Filter, Setup menu) 121 FIRM UPDATE (ADVANCED SETUP menu) 132 Firmware update 132 Firmware update (network) 132, 141 Firmware update (USB) 132 Firmware Version (System, Information menu) 129 Firmware version check 132 FM antenna connection 45 FM Mode (Option menu) 98 FM radio listening 70 Format (Audio Signal, Information menu) 128 Frequency (FM/AM radio) 70 Front (Speaker, Setup menu) 112 Front / Rear Balance (Sound Program menu) 106 Front display brightness 125 Front display brightness 125 Front display information 94 Front panel (part names and functions) 10 Front panel door (front panel) 10 Front panel jack connection 44 Front Presence (Speaker, Setup menu) 113 Function (Setup menu) 124 G GND terminal 43 Ground lead 43 H Hall in Amsterdam (sound program) 67 Hall in Munich (sound program) 67 Hall in Vienna (sound program) 67 Hall in Vienna (sound program) 67 Hall in Vienna (sound program) 67 HDMI (Setup menu) 119 HDMI cable 34 HDMI connection (video device) 41 HDMI control (HDMI, Setup menu) 119 HDMI jack 34
--	--	---

HDMI Monitor (Information menu) 128	L	Microphone base 53, 56
HDMI OUT1 (Audio Output, Setup menu) 120	Language (Setup menu) 127	MODE key 15
HDMI OUT2 (Audio Output, Setup menu) 120	Learning (remote control) 135	Monaural Mix (Sound Program menu) 106
HDMI OUT2 Assign (Multi Zone, Setup menu) 124	Left / Right Balance (Sound Program menu) 106	Monaural reception (FM radio) 70
HDMI output selection 61	Level (Sound Program menu) 106	Monitor check 131
HDMI signal compatibility 157	Level (Speaker, Setup menu) 114	MONITOR CHECK (ADVANCED SETUP menu) 131
Headphones 65	Level (YPAO measurement result) 57	Monitor Out Assign (Multi Zone, Setup menu) 123
Height Balance (Sound Program menu) 106	Level Error (YPAO warning message) 60	Mono (Zone2 Set, Setup menu) 123
High definition audio 157	LFE (Low Frequency Effects) 152	Mono (Zone3 Set, Setup menu) 123
High speed HDMI cable 34	LIGHT key 15	Mono Movie (sound program) 66
Hi-Res Mode (Enhancer, Option menu) 97	Lipsync 152	MOVIE (sound program category) 66
•	Lipsync (Sound, Setup menu) 115	MOVIE THEATER (sound program subcategory) 66
1		MULTI CH INPUT jack 14
In.Trim (Volume Trim, Option menu) 97	LIVE/CLUB (sound program subcategory) 67 Liveness (Sound Program menu) 105	Multi measurement (YPAO) 55
Indicator (part names and functions) 12	Load (Scene menu) 102	Multi Zone (Information menu) 129
INFO key 11, 16	Low Frequency Effects (LFE) 152	Multi Zone (Setup menu) 122
Information display (front display) 12		Multi-channel analog connection 47
Information menu 128	M	Multiple room playback 87
Information switching (front display) 94	MAC Address (MAC Address Filter, Setup menu) 121	Multi-zone 87
Initial Delay (Sound Program menu) 105	MAC Address (Network, Information menu) 129	Multi-zone output 155
Initial Volume (Sound, Setup menu) 116	MAC Address Filter (Network, Setup menu) 121	MUSIC (sound program category) 67
Initial Volume (Zone2 Set, Setup menu) 122	Macro (remote control) 137	Music Video (sound program) 66
Initial Volume (Zone3 Set, Setup menu) 122	Main Zone Set (Multi Zone, Setup menu) 122	MUTE key 15
INITIALIZE (ADVANCED SETUP menu) 131	Manual Setup (Speaker, Setup menu) 111	Muting 61
Input (Audio Signal, Information menu) 128	Manual speaker configuration 111	v
Input Assignment (Function, Setup menu) 124	Manual station preset (FM/AM radio) 71	N
Input jack assignment 124	Max Volume (Sound, Setup menu) 115	NAS (Network Attached Storage) 46
Input menu 99	Max Volume (Zone2 Set, Setup menu) 122	NAS connection 46
Input selection key (remote control) 15	Max Volume (Zone3 Set, Setup menu) 122	NAS content playback 80
Input Trim (Volume Trim, Option menu) 97	Measurement result (YPAO) 57	Network (Information menu) 129
Internal Error (error indication) 150	Media sharing setup 80	Network (Setup menu) 120
Internal Error (YPAO error message) 59	Memory Guard (Function, Setup menu) 126	Network Attached Storage (NAS) 46
Internet radio listening 83	Menu language selection 49	Network cable 46
IP Address (Network, Information menu) 129	Menu operation key (front panel) 11	Network connection 46
IP Address (Network, Setup menu) 120	Menu operation key (remote control) 15	Network information 129
iPod charge 73	MHL cable 34	Network Name (Network, Information menu) 129
iPod connection 73	MHL connection 44	Network Name (Network, Setup menu) 121
iPod content playback 74	MHL jack 34	Network Standby (Network, Setup menu) 121
iPod content playback (AirPlay) 85	MHL Overloaded (error indication) 150	No content (error indication) 150
iTunes content playback (AirPlay) 85	MHL-compatible mobile device 44	No device (error indication) 150

No F.PRNS SP (YPAO error message) 59	PURE DIRECT (sound mode) 69	Resolution (Video Mode, Setup menu) 117
No Front SP (YPAO error message) 59	Pure Direct Mode (Sound, Setup menu) 116	Reverb Delay (Sound Program menu) 105
No MIC (YPAO error message) 59	0	Reverb Level (Sound Program menu) 105
No R.PRNS SP (YPAO error message) 59	Q	Reverb Time (Sound Program menu) 105
No Signal (YPAO error message) 59	Q factor 114	Reverse (Wiring, YPAO measurement result) 57
No Sur. SP (YPAO error message) 59	R	Roleplaying Game (sound program) 66
Noisy (YPAO error message) 59	Rear panel (part names and functions) 13	Room Size (Sound Program menu) 105
Normal (Wiring, YPAO measurement result) 57	Rear Presence (Speaker, Setup menu) 113	Router connection 46
NTSC (TV FORMAT, ADVANCED SETUP menu) 131	Recital/Opera (sound program) 66	S
Numeric key (remote control) 16	Recording device connection 47	
0	RECOV./BACKUP (ADVANCED SETUP menu) 131	S VIDEO jack 34
	RemID Mismatch (error indication) 150	Sampling (Audio Signal, Information menu) 128
ON SCREEN key 15	REMOTE CON AMP (ADVANCED SETUP menu) 130	Save (Scene menu) 102
OPTICAL jack 34	Remote connection 91	SBR → SBL (YPAO error message) 59
OPTION key 15	Remote control (part names and functions) 15	Scene configuration 63
Option menu 95	Remote control code registration	SCENE function 62
Out of Phase (YPAO warning message) 60	(playback device) 134	SCENE link playback 63
Output (Audio Signal, Information menu) 128	Remote control code registration (TV) 133	Scene menu 101
Over Distance (YPAO warning message) 60	Remote Control Code Search 133, 134	Sci-Fi (sound program) 66
P	Remote control ID setting 130	Setting Data Copy (Speaker, Setup menu) 111
PAL (TV FORMAT, ADVANCED SETUP menu) 131	Remote control ID setting (remote control) 130	Setting Pattern (Speaker, Setup menu) 111
Panorama (Sound Program menu) 106	Remote control sensor 10	Setup menu 107
Parametric EQ (Speaker, Setup menu) 114	Remote control sensor setting 130	Short Message (Display Set, Setup menu) 125
PARTY key 16	Remote control signal transmitter (remote control) 15	Shuffle (iPod, Option menu) 76 Shuffle (PC/NAS. Option menu) 82
Party mode 93	Remote ID (System, Information menu) 129	Shuffle (USB storage device, Option menu) 79
Party Mode Set (Multi Zone, Setup menu) 124	REMOTE IN jack 13	Signal information 128
PC connection 46	Remote Off (error indication) 150	SILENT CINEMA 65
PC content playback 80	REMOTE OUT jack 13	Simple play (iPod) 75
PHONES jack 11	REMOTE SENSOR (ADVANCED SETUP menu) 130	Single measurement (YPAO) 53
PHONO jack 13	Rename (device name on the remote control) 136	Size (YPAO measurement result) 57
Playback device connection 41	Rename (input name) 100	SLEEP key 16
Playback device operation (remote control) 135	Rename (network name) 121	Sleep timer 16
Please wait (error indication) 150	Rename (scene name) 103	Sleep timer (Zone2/Zone3/Zone4) 93
Power Amp Assign (Speaker, Setup menu) 111	Rename/Icon Select (Input menu) 100	Sound (Setup menu) 115
Power cable connection 48	Rename/Icon Select (Scene menu) 103	Sound field effect 65
Power management 127	Repeat (iPod, Option menu) 76	Sound mode selection 64
Power Mode (DC OUT, Setup menu) 126	Repeat (PC/NAS, Option menu) 82	Sound program 66, 67
PRE OUT jack 14	Repeat (USB storage device, Option menu) 79	Sound Program menu 104
Preset station selection (FM/AM radio) 71	Reset (remote control) 139	Speaker (Setup menu) 111
Pure Direct 69	Reset (Scene menu) 103	opeanor (octup mona) 111

Speaker cable connection 23	S-video cable 34	V
Speaker connection 18	S-video connection (video device) 42	VERSION (ADVANCED SETUP menu) 132
SPEAKER IMP. (ADVANCED SETUP menu) 130	SW.Trim (Volume Trim, Option menu) 97	Version error (error indication) 150
Speaker impedance 18	SWFR Layout (Speaker, Setup menu) 113	Video (Setup menu) 117
Speaker Impedance (System, Information menu) 129	System (Information menu) 129	Video Adjust (Option menu) 98
Speaker impedance setting 21, 130	System ID (System, Information menu) 129	Video Adjustment (Option menu) 98
Speaker indicator (front display) 12	-	VIDEO AUX jack 11
Speaker placement 19	Toward Zoon (Trianna Colonia C	Video device connection 41
Spectacle (sound program) 66	Target Zone (Trigger Output, Setup menu) 126	VIDEO jack 34
Sports (sound program) 66	Test Tone (Speaker, Setup menu) 114	Video Mode (Option menu) 98
Standard (sound program) 66	The Bottom Line (sound program) 67	Video Mode (Video, Setup menu) 117
Standby indicator (front panel) 10	The Roxy Theatre (sound program) 67	Video Out (Input menu) 100
Standby Sync (HDMI Control, Setup menu) 119	Tone Control (Option menu) 96	Video pin cable 34
Standby Through (HDMI, Setup menu) 120	TONE/BALANCE key 11	Video Signal (Information menu) 128
Station preset (FM/AM radio) 71	Treble (Tone Control, Option menu) 96	Video signal flow 154
Status (Network, Information menu) 129	Trigger function 48	Video signal type setting 131
STEREO (sound program subcategory) 67	Trigger Mode (Trigger Output, Setup menu) 125	Village Vanguard (sound program) 67
Stereo pin cable (RCA cable) 34	TRIGGER OUT jack 13 Trigger Output1 (Function, Setup menu) 125	Virtual CINEMA DSP 65
Stereo reception (FM radio) 70		Virtual Presence Speaker (VPS) 65
STP network cable 46	Trigger Output2 (Function, Setup menu) 125 Turntable connection 43	Volume (Zone2 Set, Setup menu) 122
STRAIGHT (sound mode) 68	TV Audio Input (HDMI Control, Setup menu) 119	Volume (Zone3 Set, Setup menu) 122
Straight decode 68	TV Addio input (individually Setup menu) 119 TV connection 35	Volume Interlock (Input menu) 100
Subnet Mask (IP Address, Setup menu) 120	TV connection (ARC-compatible TV) 35	Volume Trim (Option menu) 97
Subnet Mask (Network, Information menu) 129	TV connection (HDMI Control-compatible TV) 37	VPS (Virtual Presence Speaker) 65
Subwoofer 1 (Speaker, Setup menu) 113	TV connection (TV with HDMI input jacks) 38	
Subwoofer 2 (Speaker, Setup menu) 113	TV connection (TV with HDMI input jacks) 39	W
Subwoofer connection 23	TV FORMAT (ADVANCED SETUP menu) 131	Wallpaper (Display Set, Setup menu) 125
Subwoofer Trim (Volume Trim, Option menu) 97	TV Format (System, Information menu) 129	Warehouse Loft (sound program) 67
SUR.DECODE (sound mode) 68	TV operation (remote control) 134	Wiring (YPAO measurement result) 57
Surround (Speaker, Setup menu) 112	TV operation (remote control) 15	Υ
Surround Back (Speaker, Setup menu) 112	,	Yamaha Parametric room
Surround Back Initial Delay	U	Acoustic Optimizer (YPAO) 50
(Sound Program menu) 105	Unable to play (error indication) 150	YPAO
Surround Back Liveness (Sound Program menu) 105	USB jack 11	(Yamaha Parametric room Acoustic Optimizer) 50
Surround Back Room Size	USB mass storage class device 77	YPAO error message 59
(Sound Program menu) 105	USB Overloaded (error indication) 150	YPAO MIC jack 11
Surround Initial Dalay (Sound Bragram many) 105	USB storage device connection 77	YPAO microphone 50
Surround Initial Delay (Sound Program menu) 105	USB storage device content playback 77	YPAO warning message 60
Surround Liveness (Sound Program menu) 105	User Cancel (YPAO error message) 59	
Surround Room Size (Sound Program menu) 105		

Z

Zone Rename (Main Zone Set, Setup men	u) 122
Zone Rename (Zone2 Set, Setup menu)	123
Zone Rename (Zone3 Set, Setup menu)	123
Zone Rename (Zone4 Set, Setup menu)	123
Zone Scene Rename (Zone2 Set, Setup m	enu) 12 3
Zone Scene Rename (Zone3 Set, Setup m	enu) 12 3
Zone Scene Rename (Zone4 Set, Setup m	enu) 12 3
Zone2 Set (Multi Zone, Setup menu) 122	2
Zone2 speaker connection 32, 88	
Zone3 Set (Multi Zone, Setup menu) 122	2
Zone3 speaker connection 32, 88	
Zone4 Set (Multi Zone, Setup menu) 123	3

