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# Marantz<sup>®</sup> AV Surround Receiver NR1601

User Guide

### □ SAFETY PRECAUTIONS



### CAUTION:

### TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. **REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO BAIN OR MOISTURE.

### IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions
- 2. Keep these instructions.
- Heed all warnings. 3.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers. stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into vour outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.

- 14. Refer all servicing to gualified service personnel.
  - · Connect the product into an outlet on a circuit different from that to which the receiver is connected.
  - · Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

### For Canadian customers:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

### FCC INFORMATION (For US customers)

### 1. PRODUCT

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This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by Marantz may void your authority, granted by the FCC, to use the product.

### 3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.

To completely disconnect this product from the mains, disconnect the plug

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

### PRECAUTION:

la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

### PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.



### Servicing is required when the apparatus has been damaged in any way. such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

### CAUTION:

from the wall socket outlet.

Pour déconnecter complètement ce produit du courant secteur, débranchez

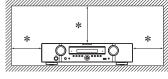
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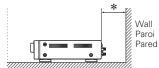
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### □ NOTES ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO

WARNINGS	AVERTISSEMENTS	ADVERTENCIAS
<ul> <li>Avoid high temperatures.</li></ul>	<ul> <li>Eviter des températures élevées.</li></ul>	<ul> <li>Evite altas temperaturas.</li></ul>
Allow for sufficient heat dispersion when installed in a rack. <li>Handle the power cord carefully.</li>	Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. <li>Manipuler le cordon d'alimentation avec précaution.</li>	Permite la suficiente dispersión del calor cuando está instalado en la consola. <li>Maneje el cordón de energía con cuidado.</li>
Hold the plug when unplugging the cord. <li>Keep the unit free from moisture, water, and dust.</li> <li>Unplug the power cord when not using the unit for long periods of time.</li> <li>Do not obstruct the ventilation holes.</li> <li>Do not let foreign objects into the unit.</li> <li>Do not let insecticides, benzene, and thinner come in contact with the unit.</li> <li>Never disassemble or modify the unit in any way.</li> <li>Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.</li> <li>Naked flame sources such as lighted candles should not be placed on the unit.</li> <li>Observe and follow local regulations regarding battery disposal.</li> <li>Do not place objects filled with liquids, such as vases, on the unit.</li> <li>Do not handle the mains cord with wet hands.</li> <li>When the switch is in the OFF position, the equipment is not completely switched off from MAINS.</li> <li>The equipment shall be installed near the power supply so that the power supply is easily accessible.</li>	Tenir la prise lors du débranchement du cordon. <li>Protéger l'appareil contre l'humidité, l'eau et la poussière.</li> <li>Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.</li> <li>Ne pas laisser des objets étrangers dans l'appareil.</li> <li>Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.</li> <li>Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.</li> <li>Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées.</li> <li>Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.</li> <li>L'appareil ne doit pas être exposé à l'eau ou à l'humidté.</li> <li>Ne pas manyuler le cordon d'alimentation avec les mains mouillées.</li> <li>Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas cordon d'alimentation avec les mains mouillées.</li> <li>Lorsque l'interrupteur est sur la position OFF, l'appareil nest doubjet es sur la position OFF, l'appareil nest sur la position OFF, l'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible.</li>	Sostenga el enchufe cuando desconecte el cordón de energía. <li>Mantenga el equipo libre de humedad, agua y polvo.</li> <li>Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.</li> <li>No obstruya los orificios de ventilación.</li> <li>No deje objetos extraños dentro del equipo.</li> <li>Nunca desarme o modifique el equipo de ninguna manera.</li> <li>La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas.</li> <li>No deberán colocarse sobre el aparato fuentes inflamables sin protección, como velas encendidas.</li> <li>A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente.</li> <li>No colocar sobre el aparato objetos llenos de líquido, como jarros.</li> <li>No maneje el cable de alimentación con las manos mojadas.</li> <li>Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación de anera que resulte fácil acceder a ella.</li>

# CAUTIONS ON INSTALLATION PRÉCAUTIONS D'INSTALLATION EMPLAZAMIENTO DE LA INSTALACIÓN





- \* For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.
- More than 0.3 m is recommended.
- Do not place any other equipment on this unit.
- \* Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire.
- Une distance de plus de 0,3 m est recommandée.
- Ne placez aucun matériel sur cet appareil.
- \* Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.
- Se recomienda dejar más de 0,3 m alrededor.
- No coloque ningún otro equipo sobre la unidad.

# **Getting started**

Thank you for purchasing this Marantz product. To ensure proper operation, please read this user guide carefully before using the product. After reading them, be sure to keep them for future reference.

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### List of preset codes ......End of this manual

### **Accessories**

Check that the following parts are supplied with the product.

<ul> <li>2 Power cord</li> <li>3 Remote cord</li> <li>4 R03/AAA bas</li> <li>5 Setup microc (ACM1H, Cold)</li> <li>6 AM loop and</li> </ul>	(Cord length: App htrol unit (RC010S htteries phone ord length: Appro- tenna	prox. 1.7 m) iR) x. 6.0 m)		1 
2	3	(5)	6	7
		A	Q	CHIF



### **Operation buttons**

The operations described in this manual are based mainly on remote control operation.

### □ Symbols

- This symbol indicates a reference page on which T related information is described.
- This symbol indicates a supplementary information ø and tips for operations.

This symbol indicates points to remember operations NOTE or function limitations.

### Illustrations

Note that the illustrations in these instructions are for explanation purposes and may differ from the actual unit.

# Advanced version

**Basic version** 

### ENGLISH

### Features

# Fully Discrete, identical quality and power for all 7 channels (50 W x 7ch, 8 $\Omega$ )

The unit is equipped with a power amplifier that plays back highfidelity sound in surround mode with equal quality and power for all channels, true to the original sound.

The power amplifier circuit adopts a discrete-circuit configuration that achieves high-quality surround sound play back.

# Supports HDMI 1.4a with 3D, ARC, Deep Color, x.v.Color, Auto Lipsync and HDMI control function

This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system. This unit also supports the ARC (Audio Return Channel) function, which plays back TV sound with this unit via an HDMI cable used for connecting the unit and a TV\*.

\* The TV should support the ARC function.

### 4-HDMI inputs and 1-output

The unit is equipped with 4 HDMI input connectors for connecting devices with HDMI connectors, such as a Blu-ray Disc player, game machine, HD video camera, etc.

### High Definition Audio Support

The unit is equipped with a decoder which supports high-quality digital audio format for Blu-ray Disc players such as Dolby TrueHD, DTS-HD Master Audio, etc.

### **Dolby Pro Logic** IIz

The unit is provided with a Dolby Pro Logic IIz decoder. When you play back the sound in Dolby Pro Logic IIz playback with front height speakers connected to the unit, you can enjoy playback sound with rich spacial expression.

### Easy to use, On-Screen Display

Simple settings are enabled with the setting menus displayed on the TV screen. When you control the sound volume, the volume level is displayed on the screen, and when you switch the input source, the name of the input source is displayed.

### Auto setup function

The unit is provided with an "Auto setup function" which automatically makes speaker settings best suited for the listening environment. The sound from the speakers is picked up with the supplied microphone. Reflecting sound and audio characteristics of speakers are measured, and settings for an optimum sound field are automatically made.

# Upconverting of all types of source video signals to HDMI signals

This unit is provided with functions for automatic conversion of various video signals (component video, video) that are input to this unit into HDMI signals for output to a monitor, allowing connection between this unit and a TV to be made with a single HDMI cable.

### Direct Play for iPod<sup>®</sup> and iPhone<sup>®</sup> via USB

Music data from an iPod can be played back if you connect the USB cable supplied with the iPod via the USB port of this unit, and also an iPod can be controlled with the remote control unit for this unit.

### M-XPort (Marantz-eXtension Port)

This unit is equipped with the M-Xport, a Marantz original innovation that provides outstanding expandability. You can connect the Wireless Receiver RX101 (sold separately) to this port.

### Speaker terminal for front height channel

The unit is equipped with dedicated front height channel speaker terminals on the rear panel. You can enjoy 7.1-channel playback using the front height channel and 7.1-channel playback using the surround back channel, without having to reconnect the speakers.

### **Other features**

- Dolby Virtual Speaker (12) page 28)
- Dolby Headphone 😰 page 28)
- DTS Neural Surround (🕼 page 26)

### **Cautions on handling**

### Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

### About Condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

### Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from this unit when it is in use.

### Moving the unit

Turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system units before moving the unit.

### About Care

- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used.

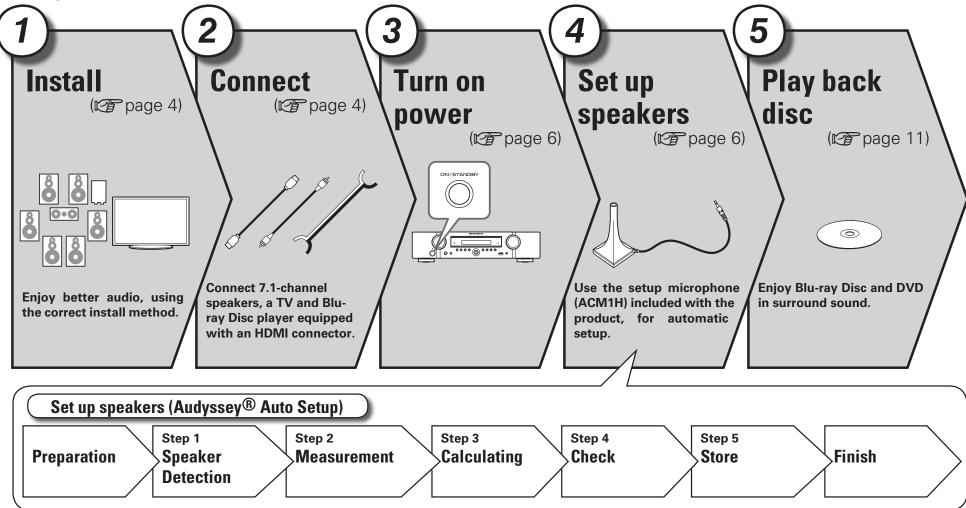
# Simple Version (Simple setup guide)

Here, we explain the entire setup procedure, from unboxing the unit to using it in a home theater.

The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 30.

 $\hfill\square$  Before connecting the unit, turn off the power to all devices.

**□** For operation of the connected devices, refer to the user manuals for each device.



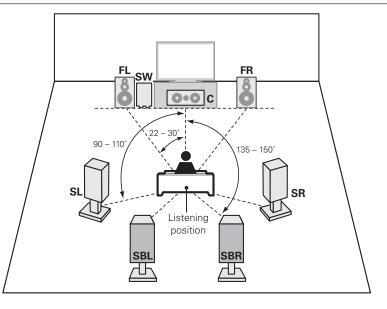
Information

### ENGLISH

# 1) Install

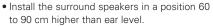
This unit can perform 2.0/2.1 to 7.1-channel surround playback. This page provides the speaker installation procedure for the 7.1-channel playback using surround back speakers as an example.

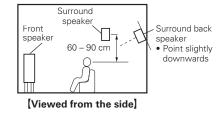
The default setting is 7.1-channel. You can also perform 5.1-channel playback. To perform 5.1-channel playback, connect 5.1-channel speakers only. Use the Audyssey Auto Setup function of this unit to automatically detect the number of connected speakers and perform optimal settings for the speakers to be used.



- FL Front speaker (L)
- FR Front speaker (R)
- C Center speaker
- SW Subwoofer SL Surround sp
- **SL** Surround speaker (L) **SR** Surround speaker (R)
- **SBL** Surround back speaker (L)
- **SBR** Surround back speaker (R)







The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 30.

# 2) Connect

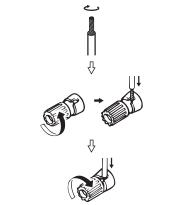
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### Speakers

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the this unit, and be sure to interconnect the channels and polarities correctly.

### Connecting the speaker cables

Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



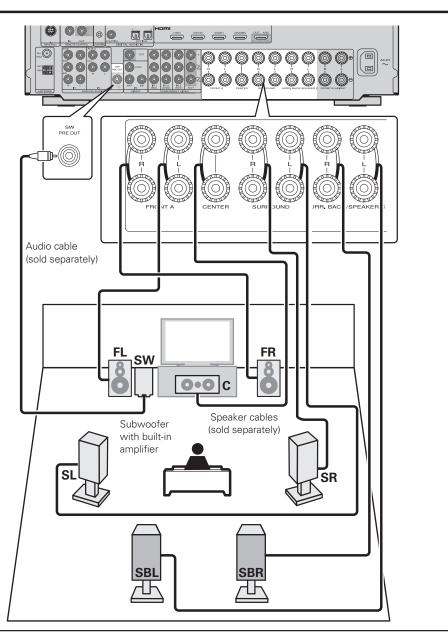
### NOTE

- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (P page 71 "Protection Circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.
- Use speakers with the speaker impedances shown below.

Speaker terminals	Speaker impedance
FRONT A	
CENTER	
SURROUND	6 – 8 Ω
SURR. BACK/SPEAKER C	
FRONT B/HEIGHT	

### ENGLISH

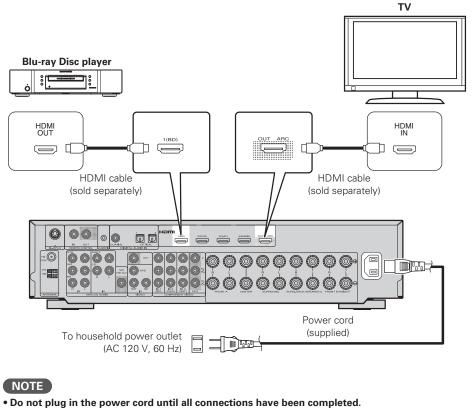
Connect Simple version



### Blu-ray Disc player and TV

Use only an HDMI (High-Definition Multimedia Interface) cable that bears the HDMI logo (a certified HDMI product). Using a cable without the HDMI logo (an uncertified HDMI product) may result in abnormal playback.

When outputting Deep Color or 1080p, etc., we recommend you use a "High Speed HDMI cable" or a "High Speed HDMI cable with Ethernet" for enhanced high-quality playback.



• Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

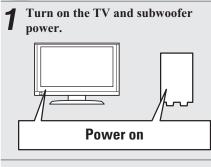
The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 30.

**Basic version** 



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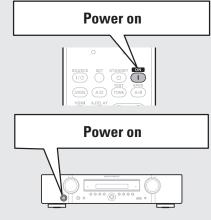
# ) Turn on power



**2** Change the TV input to the input of this unit.

### **3** Press **ON** to turn on power to the unit. The power indicator switches off, and power

The power indicator switches off, and power is supplied to the unit.



# **4** Set up speakers (Audyssey<sup>®</sup> Auto Setup)

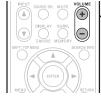
The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey Auto Setup".

To perform measurement, place the setup microphone in multiple locations all around the listening area. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).

- When performing Audyssey Auto Setup, MultEQ<sup>®</sup>/Dynamic EQ<sup>®</sup>/Dynamic Volume<sup>®</sup> functions become active (127) page 46, 47).
- To set up the speakers manually, use "Speaker Setup" (1) page 49) on the menu.

### NOTE

- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.
- Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
- Do not unplug the setup microphone from the main unit until Audyssey Auto Setup is completed.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Loud test sounds may be played during Audyssey Auto setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Operating **VOLUME +** during the measurements will cancel the measurements.
- Measurement cannot be performed when headphones are connected.



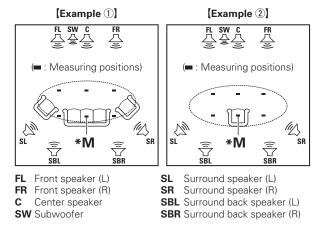
The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 30.

### ENGLISH

### Set up speakers (Audyssey<sup>®</sup> Auto Setup)

### About setup microphone placement

- Measurements are performed by placing the setup microphone successively at multiple positions throughout the entire listening area, as shown in **[Example** ①]. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).
- Even if the listening environment is small as shown in **[Example** (2)], measuring at multiple points throughout the listening environment results in more effective correction.



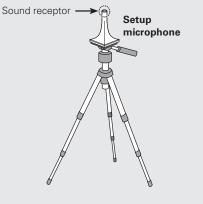
### About the main listening position (\*M)

The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting Audyssey Auto Setup, place the setup microphone in the main listening position. Audyssey  $MultEQ^{(R)}$  uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

### Set up the microphone

Mount the setup microphone on a tripod or stand and place it in the main listening position.

When placing the setup microphone, adjust the height of the sound receptor to the level of the listener's ear.



### NOTE

- Do not hold the setup microphone in your hand during measurements.
- Avoid placing the setup microphone close to a seat back or wall as sound reflections may give inaccurate results.

2

### Set up the subwoofer

If using a subwoofer capable of the following

adjustments, set up the subwoofer as shown below.

### **U** When using a subwoofer with a direct mode

Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting.

### **U** When using a subwoofer without a direct mode

Make the following settings:

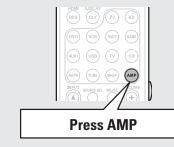
- Volume : "12 o'clock position"
- Crossover frequency :
- "Maximum/Highest Frequency"
- Low pass filter : "Off"
- Standby mode : "Off"

### Set up the remote control unit

**Set up the operation mode** 

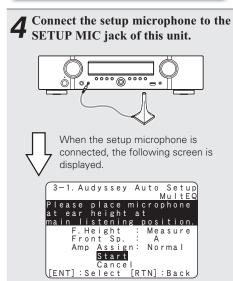
3

Press **AMP** to set the remote control unit to amplifier operation mode.

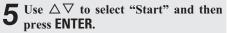


### Set up speakers (Audvssev<sup>®</sup> Auto Setup)

### **Preparation**



The setting method for 7.1-channel playback using the surround back speakers is described here. For the method of setting up speakers other than the 7.1-channel system, select "Amp Assign" and perform steps 3 and 4 of "Set up speakers" (Leg page 33).



When measuring begins, a test tone is output from each speaker.

Measurement requires several minutes.

### If "Cancel" is selected

"Cancel Auto Setup?" is displayed on the TV screen. If "Yes" is selected, "Audyssey Auto Setup" closes.

### Step 1 **Speaker Detection**

Front Sp.

Center Sp.

Subwoofer

S Back Sp

[ENT] : Next

the speaker connection.

press ENTER.

Surround Sp.

Next

Retry

If a connected speaker is not displayed, the

speaker may not be connected correctly. Check

**7** Use  $\Delta \nabla$  to select "Next" and then

6

NOTE

• In step 1, you will perform measurements at the main listening position.

:Yes

:Yes

:Yes

:Yes

:Yes

The detected speakers are displayed.

Step1:Speaker Detection MultEQ

• This step automatically checks the speaker configuration and speaker size, and calculates the channel level, distance, and crossover frequency. It also corrects distortion in the listening area.



### If "Caution" is displayed:

Go to "Error messages" (27 page 10), check any related items, and perform the necessary procedures.

If the problem is resolved, return and restart "Audyssey Auto Setup".

### When performing Audyssey Auto Setup over again

Press  $\Delta \nabla$  to select "Retry", and then press ENTER.

### When measuring has stopped

Press  $\Delta \nabla$  to select "Cancel", then press **ENTER**. Press  $\triangleleft \triangleright$  to select "Yes", then press **ENTER**.

### Setting up the speakers again

Repeat the operation from step 4 of **Preparation** 

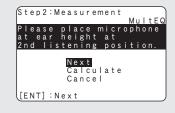
### Step 2 Measurement

- In step 2, you will perform measurements at multiple positions (two to six positions) other than the main listening position.
- · You can achieve a more effective correction of distortion within the listening area by performing measurements at multiple positions.

### • Move the setup microphone to

O position 2, use  $\triangle \nabla$  to select "Next", and then press ENTER.

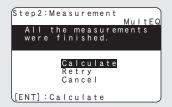
The measurement of the second position starts. Measurements can be made in up to six positions.



If you want to omit measurements from the next position onward, select "Calculate". (Go to Step 3 Calculating >)

### Repeat step 8, measuring positions 3 9 to 6.

When measurement of position 6 is completed, a "All the measurements were finished." message is displayed.







### ENGLISH

Simple version

Basic

version

Advanced version

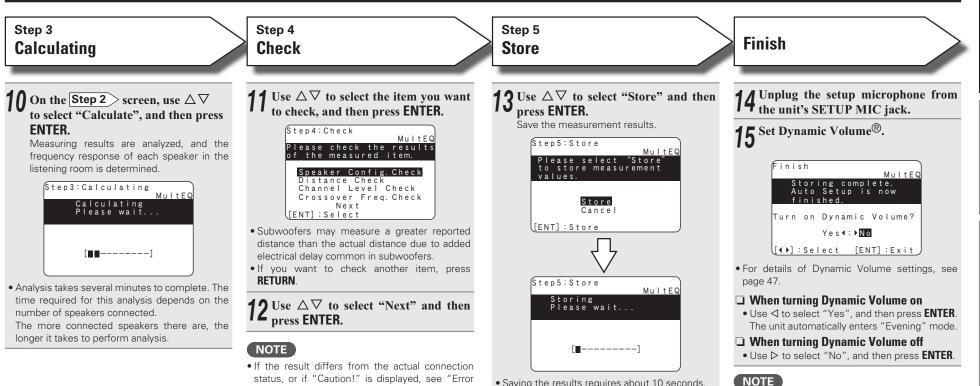
Set up speakers (Audvssev<sup>®</sup> Auto Setup)

After performing Audyssey Auto Setup, do not

change the speaker connections or subwoofer

volume. In event of a change, perform Audyssey

Auto Setup again.



- messages" (B page 10). Then carry out Audyssey Auto Setup again.
- If the result still differs from the actual connection status after remeasurement or the error message still appears, it is possible that the speakers are not connected properly. Turn this unit off, check the speaker connections and repeat the measurement process from the beginning.
- If you change speaker positions or orientation, perform Audyssey Auto Setup again to find the optimal equalizer settings.

Saving the results requires about 10 seconds.

• If you do not want to save the measurement results, use  $\Delta \nabla$  to select "Cancel", then select "Yes" using  $\triangleleft \triangleright$ . All the measured Audyssey Auto Setup data will be erased.

### 

During saving of measurement results, be sure not to turn off the power.



Move the cursor (Up/Down/Left/Right)



# Error messages

An error message is displayed if Audyssey<sup>®</sup> Auto Setup could not be completed due to speaker placement, the measurement environment, etc. If this happens, check the relevant items, be sure to take the necessary measures, then perform Audyssey Auto Setup over again.

### NOTE

Be sure to turn off the power before checking speaker connections.

Examples	Error details	Measures
Caution MultEQ OMicrophone:None or Speaker :None	<ul> <li>The connected setup microphone is broken, or a device other than the supplied setup microphone is connected.</li> <li>Not all speakers could be detected.</li> </ul>	• Connect the included setup microphone to the SETUP MIC jack of this unit.
Retry Cancel [ENT] : Retry	• The front L speaker was not properly detected.	Check the speaker connections.
Caution MultEQ •Ambient noise is too high or Level is too low. Retry Cancel	<ul> <li>There is too much noise in the room for accurate measurements to be made.</li> <li>Speaker or subwoofer sound is too low for accurate measurements to be made.</li> </ul>	<ul> <li>Either turn off any device generating noise of move it away.</li> <li>Perform again when the surroundings are quieter</li> <li>Check the speaker installation and the direction in which the speakers are facing.</li> <li>Adjust the subwoofer's volume.</li> </ul>
[ENT] : Retry	• The displayed speaker could not be detected.	• Check the connections of the displayed speaker
<pre>     Front     R     None      Retry     Cancel     Skip [▲▼]:Up/Down [◀▶]:CH </pre>		
Caution MultEQ Front L :Phase Retry Cancel Skip [AT]:Up/Down [4]:CH	• The displayed is connected with the polarities reversed.	<ul> <li>Check the polarities of the displayed speaker.</li> <li>For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure the connection is correct, press ∆∇ to select "Skip", then press ENTER.</li> </ul>

# **Parameter Check**

This function enables you to check the measurement results and equalizer characteristics after Audyssey Auto Setup.

<b>1</b> Use $\triangle \nabla$ to s press ENTER.	elect "Parameter Check" and then
$2_{\text{press ENTER.}}^{\text{Use } \bigtriangleup \nabla \text{ to sel}}$	lect the item you want to check, then
3-2	.Parameter Check
Cha Cro	aker Config.Check tance Chenck nnel Level Check ssover Freg.Check Check
R e s	tore
(ENT	]:Select [RTN]:Back
Speaker Config. Check	Check the speaker configuration.
<b>Distance Check</b>	Check the distance.
Channel Level Check Check the channel level.	
Crossover Freq. Check	Check the crossover frequency.
EQ Check	Check the equalizer.
("Audyssey" or "Aud	ected, press $\Delta \nabla$ to select equalizing curve yssey Flat") to be checked. ne display between the different speakers.

### Press **RETURN**.

3 The confirmation screen reappears. Repeat step 2.

### **Retrieving Audyssey Auto Setup settings**

If you set "Restore" to "Yes", you can return to Audyssey Auto Setup measurement result (value calculated at the start by MultEQ®) even when you have changed each setting manually.



# 5 Play back disc



# Press BD two times in a row to switch an input source for a player used for playback. Play the component connected to this unit. Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand. Adjust the sound volume. Volume + Volume up Volume down MUTE

### 4 Set the listening mode. Set the listening mode ac

Set the listening mode according to the playback contents (cinema, music, etc.) or according to your liking (CP page 26 "Selecting a listening mode (Surround mode)").

### When power is switched to standby

Press STANDBY.

### [Power indicator status in standby mode]

- Normal standby : Red
- $\bullet$  When "HDMI Control" is set to "ON" : Orange



You can also switch the power to standby by pressing **ON/STANDBY** on the main unit.



### NOTE

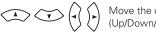
During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.



Simple version

**Basic version** 

Remote control operation buttons



Move the cursor (Up/Down/Left/Right)



Return to previous menu

### Basic version

# **Basic version**

Here, we explain the connections and basic operation methods for this unit.

- Connections page 13
- Playback (Basic operation) 2 page 21
- Selecting a listening mode (Surround mode) 7 page 26

# □ Refer to the pages indicated below for information on connecting and playing back the various media and external devices.

Audio and video	Connection	Playback
TV	🖙 page 14, 16	-
Blu-ray Disc player	🕼 page 14, 16	🕼 page 22
DVD player	🕼 page 14, 16	🕼 page 22
Set-top box (Satellite tuner or cable TV)	🕼 page 14, 17	-
Game console	🕼 page 14	-
Audio	Connection	Playback
Portable audio player	🖙 page 17	-
iPod®	🕼 page 18	🕼 page 22
USB memory device	🕼 page 18	🕼 page 23
CD player	🕼 page 19	🕼 page 22
Other audio devices	🕼 page 19	-
Radio	🕼 page 20	🕼 page 24
Wireless receiver (RX101)	🕼 page 20	-
For analysis connections, see page 4		

For speaker connections, see page 4.

# **Connections**

### Important information

- Make connections as follows before using this unit. Select an appropriate connection type according to the components to be connected.
- You may need to make some settings on this unit depending on the connection method. Refer to each description for more information.
- Select the cables (sold separately) according to the components being connected.

### NOTE

formats.

NOTE

• Do not plug in the power cord until all connections have been completed.

• HDMI signals cannot be converted into analog signals.

• Component video input signals cannot be converted into Video format.

conversion function might not operate.

• When making connections, also refer to the operating instructions of the other components being connected.

• The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60

• When a non-standard video signal from a game machine or some other source is input, the video

• Resolutions of HDMI-compatible TVs can be checked at "HDMI Monitor Information" (@ page 53).

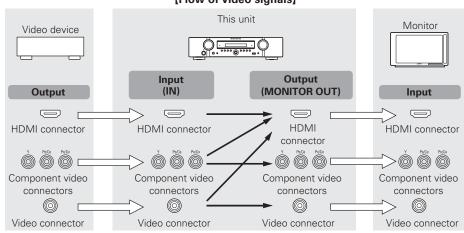
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in noise.

### Converting input video signals for output (Video conversion function)

This unit is equipped with three types of video input connector (HDMI, Component video and video) and three types of video output connector (HDMI, Component video and video).

Use the connectors corresponding to the components to be connected.

This function automatically converts various formats of video signals input to this unit into the formats used to output the video signals from this unit to a monitor.



### [Flow of video signals]

### Important information

# How the on-screen display appears in accordance with the video input signal

The way the on-screen display of the menus, status, etc., is displayed differs according to the type of video signal input to this unit.

### U When video signals are input from the HDMI or component video

### connector

- Menu: Switches to a screen with a black background and the menu is superimposed\*.
- Status display: Not displayed.
- If you want to display the menus superimposed on the background image, input the same video signals to the video connectors. When a menu is displayed, the picture switches to the one being input from the video connectors and the menu is displayed superimposed over this picture.

### NOTE

The menus and status display screen will not be superimposed on the video output from the component video connector.

### UWhen video signals are input from the video connector

- Menu: Menus are displayed superimposed over the background image.
- Status display: Displayed.

### NOTE

When you use the component video output connector, the on-screen display is not displayed. If you want to display the on-screen display, connect a TV to the HDMI connector or video output connector.

### **Examples of on-screen display**

Menu screen

Status display screen
 When the input source is
 switched
 When the volume is adjusted



Status display: The operating status appears briefly on the screen when the input source is switched or the volume is changed.

### NOTE

When you connect a TV to this unit using the video connector, the on-screen display may not be displayed on a TV in some cases. If the on-screen display is not displayed on your TV, set the on-screen display output mode to "Video" mode in accordance with "Switching the on-screen display output mode" (127) page 54).

### Connecting an HDMI-compatible device

You can connect up to four HDMI-compatible devices to the unit.

### **HDMI** function

This unit supports the following HDMI functions:

- 3D
- Deep Color (😰 page 70)
- Auto Lip Sync (😰 page 51)
- x.v.Color, sYCC601 color, Adobe RGB color, Adobe YCC601color (12) page 70, 71)
- High definition digital audio format
- ARC (Audio Return Channel)
- Content Type
- CEC (HDMI control)

### Copyright protection system

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both this unit and TV or the player need to support the copyright protection system known as HDCP (Highbandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. This unit supports HDCP.

• If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or player for more information.

### **About HDMI cables**

- When a device supporting Deep Color signal transfer is connected, use a cable compatible "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet"
- When the ARC function is used, connect a device with a "Standard HDMI cable with Ethernet" or "High Speed HDMI cable with Ethernet" for HDMI 1.4a.

### HDMI control function (P page 35)

This function allows you to operate external devices from the receiver and operate the receiver from external devices.

### NOTE

- The HDMI control function may not work depending on the device it is connected to and its settings.
- You cannot operate a TV or Blu-ray Disc player / DVD player that is not compatible with the HDMI control function.

### **About 3D function**

This unit supports input and output of 3D (3 dimensional) video signals of the HDMI 1.4a standards. For playing the 3D video content, a player, and a TV that support the 3D function of the HDMI 1.4a standards are required in addition to this unit.

**Basic versior** 

### Connecting an HDMI-compatible device

About ARC (Audio return channel) function

The Audio Return Channel in HDMI 1.4a enables a TV, via a single HDMI cable, to send audio data "upstream" to this unit.

### NOTE

- To enable the ARC function, set "HDMI Control" to "ON" (@ page 51).
- When connecting a TV that does not support the ARC function, a separate connection using an audio cable is required. In this case, refer to "Connecting a TV" (27 page 16) for the connection method.

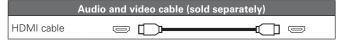
### About Content Type

The HDMI Specification Version 1.4a enables simple, automated picture setting selection with no user intervention.

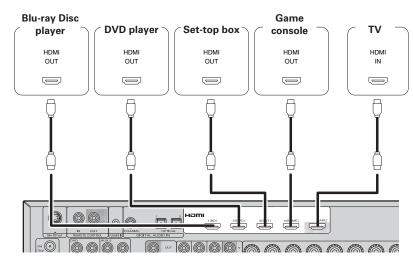
### NOTE

To enable the Content type, set "Video Mode" to "Auto" (2) page 43).

### Cables used for connections



• This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.



- When this unit is connected to other devices with HDMI cables, connect this unit and TV also with an HDMI cable.
- When connecting a device that supports Deep Color transmission, please use a "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet".
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc/DVD player's resolution to a resolution with which the monitor is compatible.
- When this unit and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.

### NOTE

The audio signal from the HDMI output connector (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs.

### Connecting to a device equipped with a DVI-D connector

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D connector.

### NOTE

- No sound is output when connected to a device equipped with a DVI-D connector. Make separate audio connections.
- Signals cannot be output to DVI-D devices that do not support HDCP.
- Depending on the combination of devices, the video signals may not be output.

### □ Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

### Input Assign (12) page 42)

Set this to change the HDMI input connector to which the input source is assigned.

### HDMI Setup (🖙 page 51)

Make settings for HDMI video/audio output.

- Auto Lip Sync
- HDMI Audio Out
- HDMI Control
- Standby Source • Power Off Control
- NOTE

The audio signals output from the HDMI connectors are only the HDMI input signals.

### ENGLISH

### **Connecting a TV**

- Select the connector to use and connect the device.
- For video connections, see "Converting input video signals for output (Video conversion function)" (127 page 13).
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (127 page 14).

### ø

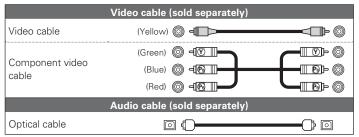
To listen to TV audio through this device, use the optical digital connection.

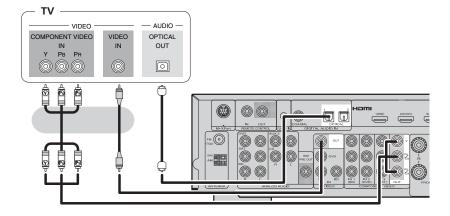
### NOTE

This connection is not required when a TV compatible with the ARC function (Audio Return Channel (HDMI 1.4a standard function)) is connected to this unit via an HDMI connection.

For details, see "About ARC (Audio return channel) function" (127 page 15) or refer to the instruction manual for your TV.

### **Cables used for connections**





### in Set as Necessary

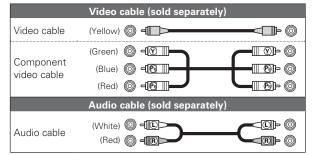
Set this to change the digital input connector or component video input connector to which the input source is assigned.

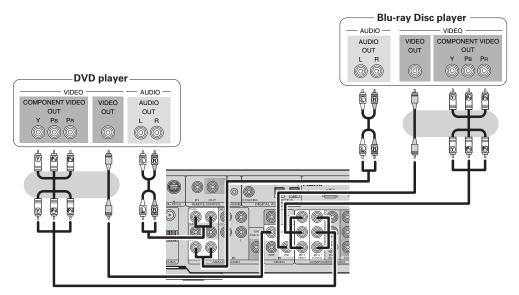
"Input Assign" (B page 42)

### Connecting a Blu-ray Disc player / DVD player

- You can enjoy video and audio from a Blu-ray Disc or DVD.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (1 page 14).

### **Cables used for connections**





### in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

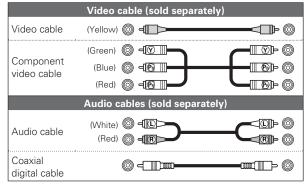
"Input Assign" (E page 42)

For HD audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus and DTS Express) playback, connect with HDMI (1277 page 14 "Connecting an HDMI-compatible device").

### Connecting a set-top box (Satellite tuner/cable TV)

- You can watch satellite or cable TV.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (1277 page 14).

### **Cables used for connections**



### Satellite Tuner/Cable TV \_ VIDEO AUDIO VIDEO COAXIAL COMPONENT VIDEO AUDIO OUT OUT OUT OUT Y PB PR L R 0 $\odot$ нат 0 đ ø :0 Q

in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

"Input Assign" (P page 42)

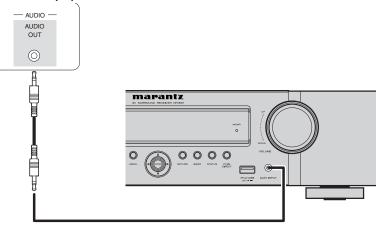
### Connecting a portable audio player

You can enjoy audio from a portable audio player.

### **Cables used for connections**

	Audio cable (sold separate	ly)
Stereo mini plug cable		

### Portable audio player



### ø

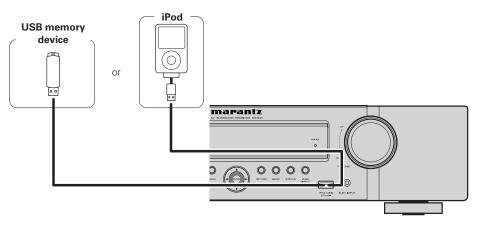
You can enjoy listening to music by connecting a portable audio player via the AUX1 input connector. In this case, set the input source to "AUX1".

### Connecting an iPod or USB memory device to the USB Port

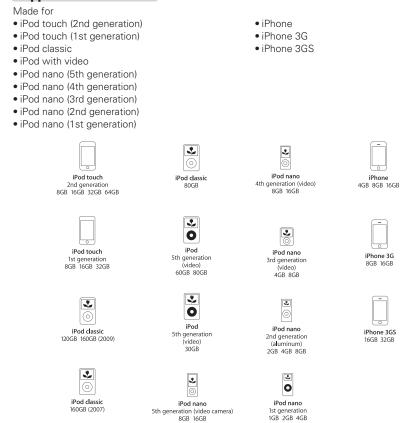
You can enjoy music, stored on an iPod or USB memory device.

### **Cables used for connections**

To connect an iPod to this unit, use the USB cable supplied with the iPod.



### Supported iPod Models



### ø

Marantz does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.

### NOTE

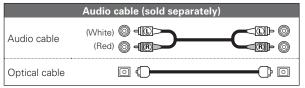
- USB memory devices will not work via a USB hub.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.

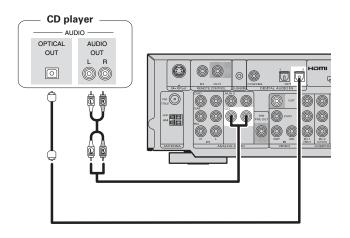
### **Connecting a CD player**

• You can enjoy CD sound.

• Select the connector to use and connect the device.

### **Cables used for connections**





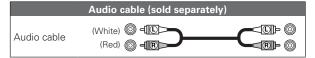
### in Set as Necessary

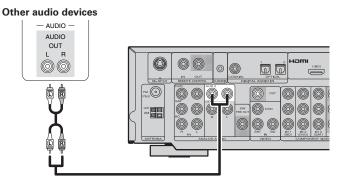
Set this to change the digital input connector to which the input source is assigned. "Input Assign" (m page 42)

### Connecting other audio devices

You can enjoy listening to playback from other audio devices connected to this unit.

### **Cables used for connections**



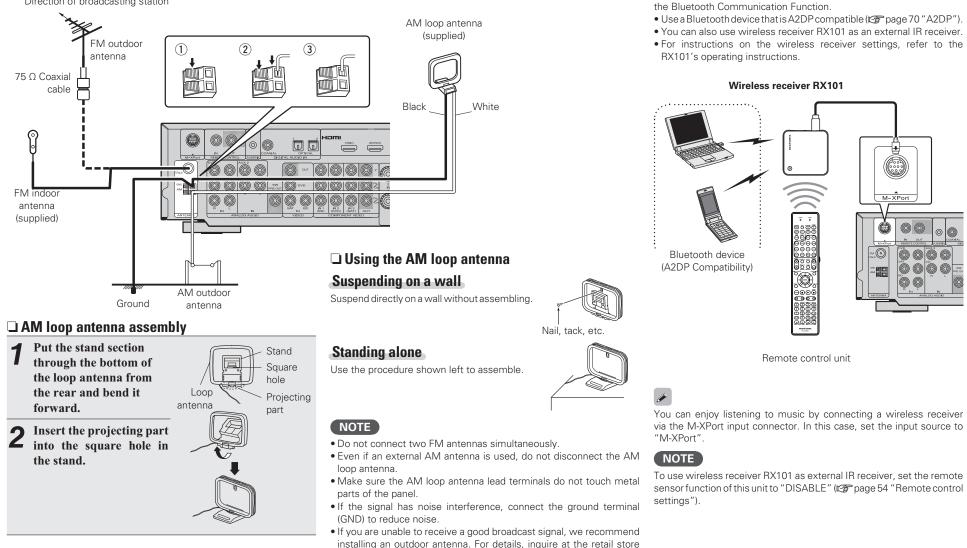


### 

You can enjoy music by connecting a portable audio player via the AUX2 input connector. In this case, set the input source to "AUX2".

### **Connecting an antenna**

- Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.
- After connecting the antenna and receiving a broadcast signal (127 page 24 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.
  - Direction of broadcasting station



where you purchased the unit.

**Connecting a wireless receiver** 

By connecting a wireless receiver RX101 (sold separately) to this unit,

you can receive and playback audio signals from other devices using

(RX101)

Simple version

**Basic version** 

Advanced versior

Information

# **Playback (Basic operation)**

- **Selecting the input source** (**P** page 21)
- □ Adjusting the master volume ( page 21)
- **Turning off the sound temporarily** (*P* page 21)
- Playing a Blu-ray Disc player/DVD player (**C** page 22)
- □ Playing a CD player ( page 22)
- □ Playing an iPod<sup>®</sup> (☞ page 22)
- □ Playing a USB memory device (☞ page 23)
- **Tuning in radio stations** (*p* page 24)

### Selecting a listening mode (Surround mode) (C) page 26)

Playback (Advanced operation) (page 35)

### Important information

Before starting playback, make the connections between the different components and the settings on the receiver.

### NOTE

Also refer to the operating instructions of the connected components when plaving them.

### Selecting the input source



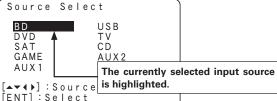
You can also use the following operation to select an input source.



- Select input source "AUX2" to play back music from an audio system connected to the AUX2 input connector.
- Select the input source "AUX2" using one of the following methods. (1) "Source select " menu ("Using the "Source Select" menu"
- provided on the right) ② **INPUT** ▲ ▼ on the remote control unit ("Operating the remote control unit" provided on the right)
- (3) **INPUT SELECTOR** knob on the main unit ("Operating the main unit" provided on the right)







When using with an iPod connected directly to the USB port of this

Input sources that are not going to be used can be set ahead of time.

• To turn off the source selection menu without selecting an input

->M-XPort -> TUNER -> AUX2 -> CD -> TV -

(2) Use  $\Delta \nabla \triangleleft \triangleright$  to select the input source, then press ENTER. The input source is set and the source selection menu is turned off.

unit, select "USB" for the input source.

• When **INPUT** ▲ ▼ is pressed, the

input source is switched in the order

source, press SOURCE SEL again.

Press **INPUT \** 

shown below.

Make this setting at "Source Delete" (@ page 52).

**Operating the remote control unit** 



USB (TV) (CD)

### Adjusting the master volume

**Operating the main unit** Turn INPUT SELECTOR.

• Turning INPUT SELECTOR switches

the input source, as shown below.

- □ When the "Volume Display" setting (CP page 52) is "Relative" [Adjustable range] --- - - - - 80.5dB - 18.0dB



### □ When the "Volume Display" setting (☞ page 52) is "Absolute"

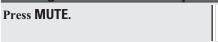
- [Adjustable range] 0.0 99.0
- The variable range differs according to the input signal and channel level setting.

ø

You can also operate via the main unit. In this case, perform the following operations. Turn **VOLUME** to adjust the volume.

VOLUME	

### Turning off the sound temporarily





- The sound is reduced to the level set at "Mute Level" (2) page 52).
- To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

# └►M-XPort ◀► TUNER ◀► AUX2 ◀► CD ◀► TV ◀

- Use **VOLUME** + to adjust the volume.

→ BD →→ DVD →→ SAT →→ GAME →→ AUX1 →→ USB →



### Playing a Blu-ray Disc player/DVD player

The following describes the procedure for plaving Blu-ray Disc plaver/ DVD player.

1	<ul> <li>Prepare for playback.</li> <li>① Turn on the power of the TV, subwoofer and player.</li> <li>② Change the TV input to the input of this unit.</li> <li>③ Load the disc in the player.</li> </ul>	LEARN SEND O SOURCE SET STANDBY (16) (16) (16) (16) (16) (17) (16) (17) (
2	Press <b>ON</b> to turn on power to the unit.	HDMI ALDELAY RES DLY Z2 BD
3	Press <b>BD</b> or <b>DVD</b> twice to switch the input source for the player used for playback.	AUXI USB TV CD SATB TUNE (M-XP) AMP

Play the component connected to this unit. Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

### **Playing a CD player**

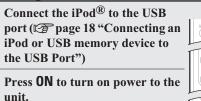
The following describes the procedure for playing CD player.

1	<ul> <li>Prepare for playback.</li> <li>① Turn on the power of the subwoofer and player.</li> <li>② Load the disc in the player.</li> </ul>	SOURCE SET STANDB
2	Press <b>ON</b> to turn on power to the unit.	HDMI A,DELAY RES DLY Z2 DVD VCR SAT
3	Press <b>CD</b> twice to switch the input source to the CD player.	AUX1 USB TV
4	Play the component connected to	o this unit.

### Playing an iPod®

You can play back both video, photo and audio.

### Listening to music on an iPod<sup>®</sup>



Press **USB** twice to switch the 2 input source to "USB".

### 

CD

If the connections screen is not displayed, the iPod may not be properly connected. Reconnect it.

### Press SEARCH and hold it down for 2 seconds or more to select the display mode.

• There are two modes for displaying the contents recorded on the iPod

**Remote mode** Display iPod information on the TV screen.

- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).
- In "Remote mode", the iPod display is as shown at right.

Direct mode Display iPod information on the iPod screen.

• "Direct iPod" is displayed on the display of this unit.

Display mode		Remote mode	Direct mode
Playable	Music file	~	$\checkmark$
files	Video file		*
Active buttons	Remote control unit (This unit)	$\checkmark$	$\checkmark$
	iPod®		$\checkmark$

\* Only the sound is played.

Use  $\Delta \nabla$  to select the item, then press **ENTER** or  $\triangleright$  to select the file to be played.

### Press ENTER, $\triangleright$ or $\blacktriangleright$ . 6 Plavback starts.

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 $(\blacktriangleright)$ ( 111

l Pod

marantz

OK to disconnect.

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• You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "USB" (127 page 53). Press  $\Delta \nabla \triangleleft \triangleright$  to return to the original screen.

- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (Pp page 48). The default setting is "OFF".
- $\bigcirc$ STATUS
- In Remote mode, press STATUS during playback to check the title name, artist name, and album name.

### iPod operation

LEARN SEND	<b>Operation buttons</b>	Function
0 0		Cursor operation
	ENTER	Enter
	SEARCH (Press and release)	Page search mode
	SEARCH (Press and hold)	Direct/Remote mode switching
	RETURN	Return
O DEPLAY SUBR.		Manual search
	(Press and hold)	(fast-reverse/fast-forward)
	•	Playback / Pause
		Auto search (cue)
	н	Pause
$\odot$ $\odot$ $\odot$ $\odot$		Stop
AUTO STEREO PORECT REPEAT 1 2 3 C	REPEAT	Repeat playback
4 5 6 X 7 8 9 10	RANDOM	Shuffle playback
	TV POWER	TV power on/standby
	IVIOVVEN	(Default : Marantz)
marantz RC010SR	TV INPUT	Switch TV input
		(Default : Marantz)

Repeat playback and shuffle playback can also be set from "Input Setup" - "Playback Mode" (2 page 44) in the menu.

### NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

### Playing a USB memory device

Playing back music files recorded on a USB memory device.

### **Important information**

### **USB** memory devices

- A USB memory device can be connected to the USB port of this unit to play music files stored on the USB memory device.
- Only USB memory devices conforming to mass storage class can be played on this unit.
- This unit is compatible with USB memory devices in "FAT16" or "FAT32" format.

### [Compatible formats]

	USB memory devices *1
WMA (Windows Media Audio)	√*2
MP3 (MPEG-1 Audio Layer-3)	$\checkmark$
MPEG-4 AAC	√*3
WAV	$\checkmark$

### \*1 USB

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standards.
- This unit is compatible with WMA META tags.
- \*2 Copyright-protected files can not be played.
- \*3 Only files that are not protected by copyright can be played on this unit.

Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

### [Compatible formats]

	Sampling frequency	Bit rate or Bit length	Extension
<b>WMA</b> (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.m4a
WAV	32/44.1/48 kHz	16 bit	.wav

# Playing files stored on USB memory devices

Connect the USB memory device to the USB port (ICF page 18 "Connecting an iPod or USB memory device to the USB Port").

Press USB twice to switch the input source to "USB".

- **3** Press  $\triangle \nabla$  to select the search item or folder, then press ENTER or  $\triangleright$ .
- Press  $\triangle \nabla$  to select the file, then press ENTER,  $\triangleright$  or  $\triangleright$ . Playback starts.

### 

- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "USB" (Fractional Screen Schwarz (Schwarz (Schwa
- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (27) page 48). The default setting is "High".
- If the USB memory device is divided into multiple partitions, only the top partition can be selected.
- This unit is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.

### NOTE

- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.
- USB memory devices will not work via a USB hub.
- Marantz does not guarantee that all USB memory devices will operate or be supplied power. When using a USB portable hard disk that can draw power from an AC adapter, we recommend using the AC adapter.
- It is not possible to connect and use a computer via the USB port of this unit using a USB cable.

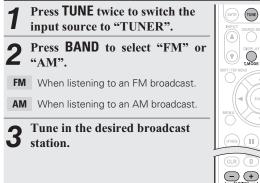
### **USB** operation

Operation buttons	Function
	Cursor operation
ENTER	Enter
SEARCH	Page search
RETURN	Return
	Manual search
(Press and hold)	(fast-reverse/fast-forward)
	Playback/Pause
	Auto search (cue)
	Pause
	Stop
	Repeat playback
	Shuffle playback
TV POWER	TV power on/standby
	(Default : Marantz)
	Switch TV input
	(Default : Marantz)

Information

### **Tuning in radio stations**

### Listening to FM/AM broadcasts



### 1) To tune in automatically (Auto tuning)

Press **T.MODE** to light the "AUTO" indicator on the display, then use TUNING + or TUNING - to select the station you want to hear.

### 2 To tune in manually (Manual tuning)

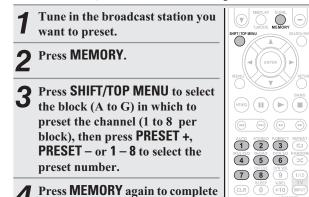
Press T.MODE to turn off the display's "AUTO" indicator, then use TUNING + or TUNING - to select the station you want to hear.

- P
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold TUNING + or **TUNING** – to change frequencies continuously.
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "TUNER" ( $\bigcirc$  page 53). Press  $\triangle \nabla \triangleleft \triangleright$  to return to the original screen.



Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

 Stations can be preset automatically at "Auto Preset" ( page 41). If "Auto Preset" is performed after performing "Manual Preset", the "Manual Preset" settings will be overwritten.



Press **MEMORY** again to complete the setting.

• To preset other stations, repeat steps 1 to 4.

### **Default settings**

Block (A – G) and Channel (1 – 8)	Default Settings
A1 – A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 – B8	520 / 600 / 1000 / 1400 / 1710 kHz, 90.1 / 90.1 / 90.1 MHz
C1 – C8	90.1 MHz
D1 – D8	90.1 MHz
E1 – E8	90.1 MHz
F1 – F8	90.1 MHz
G1 – G8	90.1 MHz

Specify a name for the preset broadcast station (Preset Name) (Preset Name)

### Listening to preset stations

Press SHIFT/TOP MENU to select the memory block (A to G).

2 Press PRESET +, PRESET - or 1 - 8 to select the desired preset channel.



### <u> </u>

You can also operate via the main unit. In this case, perform the following operations. Press  $\triangleleft \triangleright$  to select the preset radio station.



### Direct frequency tuning

You can enter the receiving frequency directly to tune in.

<b>1</b> Press SEARCH/INFO.	SHIFT) TOP MENU SEARCH INFO
<b>2</b> Input frequencies using the 0 – 9.	MENU RETURN
<ul> <li>If &lt; is pressed, the immediately preceding input is cancelled.</li> </ul>	HTFEQ II D BAND
<b>3</b> When setting is completed, press ENTER. The preset frequency is tuned in.	AUTO STEREO PARENT REPAIL AUTO STEREO PARENT REPAIL MILITO MONA D'UTILO RANDOM 4 5 6 5 5 7 8 9 100

### ENGLISH

### Tuning in radio stations

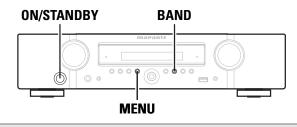
### □ Tuner (FM/AM) operation

LEARN SEND O O	
SOURCE SET STANDBY CON (10) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	
AMP	k
	ľ
I DITER	
marantz RC010SR	J

<b>Operation buttons</b>	Function	
PRESET +, -	Preset channel selection	
	Cursor operation	
ENTER	Enter	
SEARCH	Direct frequency tuning	
BAND	FM/AM switching	
T.MODE	Switch search modes	
TUNING +, –	Tuning (up/down)	
0 – 9	Preset channel selection (1 – 8) /	
0-9	Direct frequency tuning (0 – 9)	
SHIFT	Preset channel block selection	
MEMORY	Preset memory registration	
	TV power on/standby	
TV POWER	(Default : Marantz)	
TV INPUT	Switch TV input	
	(Default : Marantz)	

### Switching the tuning increment

The tuning increment factory settings are 10kHz for AM, and 0.2 MHz for FM.



While pressing down BAND and MENU, press ON/ STANDBY to turn on the power.

"Step  $\blacktriangleleft$  AM10/FM200  $\blacktriangleright$ " appears on the display.

### **9** Press $\triangleleft \triangleright$ .

✓ "Step AM9/FM50 " appears on the display, and the tuning increment is switched to AM and FM are 9 kHz and 0.05 MHz.

- **3** Press ON/STANDBY.
- The tuner preset memory will be cleared if this operation is performed.
- This setting will not revert to the default values even when the microprocessor is reset.

# Selecting a listening mode (Surround mode)

This unit can play input audio signals in multi-channel surround mode or in stereo mode. Select a listening mode suitable for the playback contents (cinema, music, etc.) or according to your liking.

### Listening mode

Input audio signal	Playback	Listening mode	
2-channel	Surround	Multi-channel playback (🍞 page 26)	<ul> <li>For 2-channel signal input:</li> <li>Surround-channel signals are created and played with surround playback.</li> <li>For multichannel signal input:</li> <li>The surround signal recorded in source is played as surround playback. (The sound is played according to the settings of the speaker size in "Speaker Config." (127 page 49).)</li> <li>Surround-back-channel or front-height-channel signals that are not recorded in source can be created.</li> </ul>
2-channel Cha	Stereo	Stereo playback (IZ) page 28)	<ul> <li>If multichannel signals are input, they are mixed down to 2-channel audio and are played.</li> <li>Subwoofer signal is also output.</li> </ul>
2-channel	Stereo	Direct playback (ICP page 28)	Sound recorded in source is played as is.         • Surround back signals or front height signals are not created.         • In this mode, the following items cannot be adjusted.         • Tone (127) page 46)       • MultEQ <sup>®</sup> (127) page 46)         • Dynamic EQ <sup>®</sup> (127) page 47)       • Dynamic Volume <sup>®</sup> (127) page 47)         • M-DAX (127) page 48)
2-channel	Virtual Surround	Dolby Virtual Speaker/ Dolby Headphone playback (ICP page 28)	Virtual Surround processing is performed on 2-channel or multichannel input signals that are played back.

- Some listening modes cannot be selected, depending on the audio format or number of channels of the input signal. For details, see "Types of input signals, and corresponding surround modes" (27 page 68).
- Adjust the sound field effect with the menu "Surround Parameter" (2) page 45) to enjoy your favorite sound mode. • You can select the listening mode by pressing SURROUND MODE on the main unit.





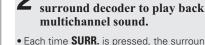
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9 (8)

AUTO 1

(4)

- → AUTO\*(STEREO)→ STEREO → DOLBY PLIIz → DOLBY PLII(x) Movie → DOLBY PLII(x) Music → DOLBY PLII(x) Game -
- DOLBY VIRTUAL NEURAL MULTI CH STEREO DTS NEO:6 music DTS NEO:6 cinema
- \* For "AUTO", press AUTO on the amplifier or remote control.

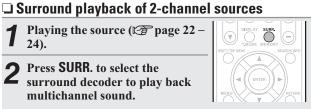


24).

Multi-channel playback

Playing the source (P page 22 -

Press SURR. to select the



- Each time SURR. is pressed, the surround mode is switched Which decoder can be selected depends on the settings of "Amp Assign" ( page 49) or "Speaker Config." ( page 49).
- DOLBY PLIIz \*1 This mode is for 7.1-channel surround playback using the front height speakers. • "PLIIz Height" is displayed.
- DOLBY PLIIx \*2 This mode is for 7.1-channel or 6.1-channel surround playback using the surround back speakers. • "PLIIx Movie", "PLIIx Music" or "PLIIx Game" is displayed.
- This mode is for 5.1-channel surround playback. DOLBY PLII Select this mode if no front height speaker nor surround back speaker is to be used.
  - "PLII Movie", "PLII Music" or "PLII Game" is displayed.

DTS NEO:6

**MULTI CH** 

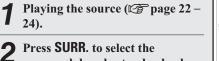
**STEREO** 

- This mode is for 7.1-channel, 6.1-channel or 5.1-channel surround playback using the surround back speakers.
  - "DTS NEO:6 Movie" or "DTS NEO:6 Music" is displayed.

This mode is for enjoying stereo sound from all speakers.

- \*3 This mode is for 7.1-channel, 6.1-channel or NEURAL 5.1-channel surround playback using the surround back speakers. "NEURAL" is displayed.
- \*1 This can be selected when the "Amp Assign" (1) page 49) setting in the menu is set to "Normal", and the "Front Speaker Setup" setting (P page 51) is set to "A".
- \*2 This can be selected when "Amp Assign" is set to "Normal" or "Speaker Config." - "S.Back" is not set to "None".
- \*3 This mode supports analog 2-channel audio, and linear PCM 2 channel (44.1 kHz, 48 kHz) audio.

### □ Surround playback of multi-channel sources (Dolby Digital, DTS etc.)



surround decoder to play back multichannel sound.

Select the surround mode while viewing the display on the screen (1) "Displaying the currently playing surround mode" at right).

SURR.

• Which decoder can be selected depends on the input signal, the settings of "Amp Assign" (@ page 49) or "Speaker Config." (127 page 49).

Displaying the currently playing surround mode		
Input signal	Surround mode	Display
DOLBY DIGITAL (2ch)	NEURAL	NEURAL
DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL	DOLBY DIGITAL
	DOLBY DIGITAL EX	DOLBY DIGITAL EX
	DOLBY DIGITAL + PLIIx Movie	OOD+ PLIX Movie
	DOLBY DIGITAL + PLIIx Music	OOD+ PLIX Music
	DOLBY DIGITAL + PLIIz	DOLBY D + PLIZ
DOLBY DIGITAL Plus	DOLBY DIGITAL Plus	DOLBY DIGITAL +
	DOLBY DIGITAL Plus + EX	DOLBY D + * EX
	DOLBY DIGITAL Plus + PLIIx	DOD + + PLIX Mu
	Movie	
	DOLBY DIGITAL Plus + PLIIx	DOD + + PLIX Ms
	Music	
	DOLBY DIGITAL Plus + PLIIz	DOLBY D + + PLIZ
DOLBY TrueHD	DOLBY TrueHD	DOLBY TrueHD
	DOLBY TrueHD + EX	DOLBY HD +EX
	DOLBY TrueHD + PLIIx Movie	OOHD +PLIX Mu
	DOLBY TrueHD + PLIIx Music	OOHD +PLIX Ms
	DOLBY TrueHD + PLIIz	DOLBY HD +PLIIZ
DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS SURROUND	DTS SURROUND
	DTS + PLIIx Movie	DTS + PLIX MV
	DTS + PLIIx Music	DTS * PLIX Ms
	DTS + PLIIz	DTS + PLIIZ
	DTS + NEO:6	DTS + NEO:6
	DTS ES MTRX6.1	DTS ES MTRX6.1
	DTS ES DSCRT6.1*1	DTS ES DSCRT6.1
	DTS 96/24*2	DTS 96/24
DTS-HD	DTS-HD HI RES	DTS-HD HI RES
	DTS-HD MSTR	DTS-HD MSTR
	DTS-HD + NEO:6	DTS-HD + NEO:6
	DTS-HD + PLIIx Movie	DTS-HD + PLIX MV
	DTS-HD + PLIIx Music	DTS-HD + PLIX Ms
	DTS-HD + PLIIz	DTS-HD + PLIZ
	DTS Express	DTS Express
PCM (multi ch)	MULTI CH IN	MULTI CH IN
	MULTI IN + Dolby EX	MULTI *Dolby EX
	MULTI IN + PLIIx Movie	MULTI IN +PLIX MU
	MULTI IN + PLIIx Music	MULTI IN +PLIX Ms
	MULTI IN + PLIIz	MULTI IN +PLIZ
	MULTI CH IN 7.1	MULTI CH IN 7.1
All Input signal	Dolby VIRTUAL SPEAKER	DOLBY VS
,par oignai		Lower and the second

• Shows a decoder to be used. • A DOLBY DIGITAL Plus decoder is displayed as "DOLBY D +". **2** Shows a decoder that creates sound output from the surround back speakers.

[Views on the display]

DOLBY D +

• "+ PLIIz" indicates the front height sound from front height speakers.

For an input signal that can be reproduced in each surround mode, see "Surround modes and surround parameters" (127 page 66).

Simple version

**Basic version** 

ENGLISH

Multi-channel playback

.\* PLIX MV

### Displaying the n d ma a d a

\*1 This is displayed when the input signal is "DTS-ES Discrete 6.1".

\*2 This is displayed when the input signal is "DTS 96/24".

### Stereo playback

This is the mode for playing in stereo. The tone can be adjusted.

- Sound is output from the front left and right speakers and subwoofer. • If multichannel signals are input, they are mixed down to 2-channel
- Playing the source (P page 22 -STEREO 24). Press STEREO. Stereo playback begins.

### Direct playback

Sound recorded in source is played as is.

- Surround back signals or front height signals are not created.
- In this mode, the following items cannot be adjusted. • MultEQ<sup>®</sup> (Cr page 46)
- Tone (127 page 46)
- Dynamic EQ<sup>®</sup> ( page 47) Dynamic Volume<sup>®</sup> ( page 47)
- M-DAX (12 page 48)

- 24).





- Each time P.DIRECT is pressed, the direct mode is switched.
- Source Direct This mode plays back tracks at high sound quality without passing through the sound quality adjustment circuits. Pure Direct \* This mode plays back tracks at the closest to the original sound quality.
  - Auto This mode detects the type of input digital signal, and automatically selects the corresponding mode for playback.
- \* The following circuits that affect sound quality are set to off.
- Main unit's display circuit (The display is turned off.)
- Analog video input/output circuit

- To cancel, press P. DIRECT again.
- Video signals are only output when HDMI signals are played in the PURE DIRECT mode.

### NOTE

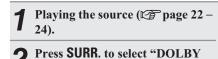
When in the PURE DIRECT mode, the menu screen is not displayed.

### **Dolby Virtual Speaker/Dolby** Headphone playback

### **Dolby Virtual Speaker mode**

This delivers a full surround sound experience from two stereo speakers.

- Sound is output from the front left and right speakers.
- If multichannel signals are input, they are mixed down to 2-channnel audio.





## **Dolby Headphone mode**

Z

VS".

You can enjoy listening to multi-channel surround sound through headphones using this mode.

Press SURR. to select the Dolby Headphone mode.



• Each time SURR. is pressed, the Dolby Headphone mode is switched.

DOLBY HEADPHONE	This is the surround mode for listening with headphones. The surround sound field is played through regular headphones.	
DOLBY HP Bypass	The sound is played in the normal stereo mode rather than the surround mode when listening with headphones.	
DOLBY HP PLII Movie	This mode is best suited for movie sources.	
DOLBY HP PLII Music	This mode is best suited for music sources.	

### 

- The surround mode returns to the previous setting as soon as the plug is removed from the jack.
- In headphone mode, Tone Control is not available.
- You can select Dolby HP PLII Movie or Dolby HP PLII Music when a 2-channel source is played back.



Playing the source (P page 22 Press P.DIRECT to select the

Z direct mode.

• If PURE DIRECT on the main unit is pressed, the same function as with the remote control unit can be obtained.

Advanced version

# **Advanced version**

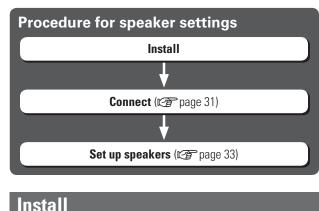
Here, we explain functions and operations that let you make better use of this unit.

- Speaker installation/connection (Other than 7.1-channel system with surround back speakers) 2 page 30
- Connections (Advanced connection) 2 page 34
- Playback (Advanced operation) 2 page 35
- How to make detailed settings page 37
- Other settings 🖙 page 54
- Operating the connected devices by remote control unit 12 page 55

# Speaker installation/connection (Other than 7.1-channel system with surround back speakers)

This section explains a wide range of speaker installation/connection/setting procedures.

For details on installing/connecting/setting 7.1 channel audio that uses surround back speakers, see "Simple version (Simple setup guide)" (127 page 3). Use the Audyssey<sup>®</sup> Auto Setup function of this unit to automatically detect the number of connected speakers and perform optimal settings for the speakers to be used.

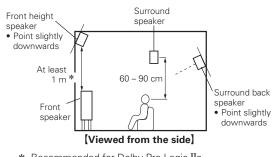


### When 7.1ch (Front height speaker) installed

### FHL FHR 💽 FL\_SV FR 0•0 c Listening position \*1 22° - 30° **\***2 22° - 45° \*3 90° - 110°

This unit is compatible with Dolby Pro Logic IIz (2 page 70), which offers an even wider and deeper surround sensation. When using Dolby Pro Logic IIz, install front height speakers.

Install the surround back speakers in a position 60 to 90 cm higher than ear level.



\* Recommended for Dolby Pro Logic IIz

### NOTE

It is not possible to use the surround back speakers and front height speakers simultaneously.

When 6.1ch (Surround back speaker) installed FR FL

0.0 C

SB

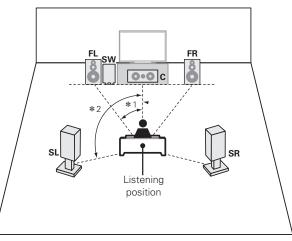
 $\mathcal{A}\mathcal{H}$ 

**\***1 22° - 30°

Listening position

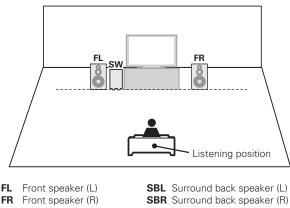
\*2 90° - 110°

### When 5.1ch installed



**\***1 22° – 30° \*2 120°

### When 2.1ch installed



- С Center speaker SW Subwoofer
- **SL** Surround speaker (L)
- **SR** Surround speaker (R)

### FHL Front height speaker (L) FHR Front height speaker (R)

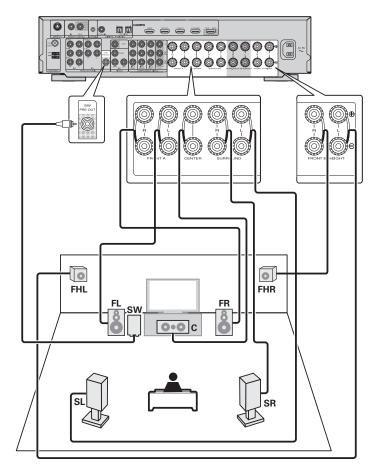
### Connect

• For the method of connecting the 7.1-channel system with surround back speakers, see page 4.

• For the method of connecting the TV, see page 5.

### 7.1-channel (Front height speaker) connection

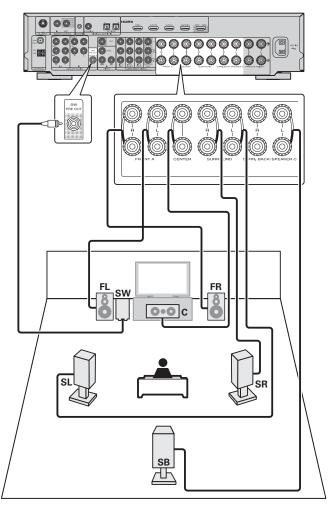
For 7.1-channel (Front height speaker) playback, set "Amp Assign" in "Set up speakers" (127 page 33) to "Normal".



### 6.1-channel (Surround back speaker) connection

If a single surround back speaker is to be used (with a 6.1-channel connection), connect it to the "L" terminals of the SURR. BACK/SPEAKER C terminal.

For speaker settings in this case, see "When 6.1ch (Surround back speaker) installed" (27 page 30). For 6.1-channel (Surround back speaker) playback, set "Amp Assign" in "Set up speakers" (27 page 33) to "Normal".

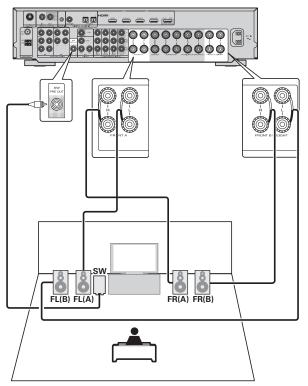


### Connect

### Front A/B connection

The second set of front speakers can be connected to the FRONT B/  $\ensuremath{\mathsf{HEIGHT}}$  terminals.

In this case, set "Front Speaker Setup" (12 page 51) of "Speaker Setup" to "B".



# 00 00 FL FR SW 2-channel connection For 2-channel playback, disconnect the subwoofers.

2.1-channel/2-channel connection

### 

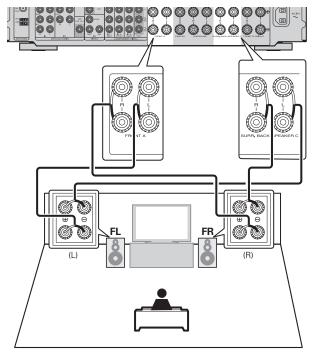
For surround playback of a multichannel source, if you connect the center speaker, surround speakers, surround back speakers and subwoofers, 7.1-channel playback is available.

Front speakers can be used separately, depending on the speaker's specifications or playback source such as front speakers (A) for multichannel playback and front speakers (B) for 2-channel playback (Pp page 51 "Front Speaker Setup").

### **Bi-amp connection**

A bi-amp connection is to connect separate amplifiers to the tweeter terminals and woofer terminals of speakers compatible with the bi-amp function. This prevents the back electromotive force (returned force without output) of the woofer sent to the tweeter, which affects the sound quality of the tweeter, and you can enjoy playback with higher-quality sound.

In this case, set "Amp Assign" of "Set up speakers" (12) page 33) to "SPKR-C".



### ¢

When making a bi-amp connection, the same signal is output from the FRONT A terminal and the SURR.BACK/SPEAKER C terminal. For surround playback of a multichannel source, if you connect the center speaker, surround speakers and subwoofers, 5.1-channel playback is available.



- Use speakers compatible with bi-amp connections.
- When making bi-amp connections, be sure to remove the shortcircuiting plate or wire between the speaker's woofer and tweeter terminals.

Simple version

Basic

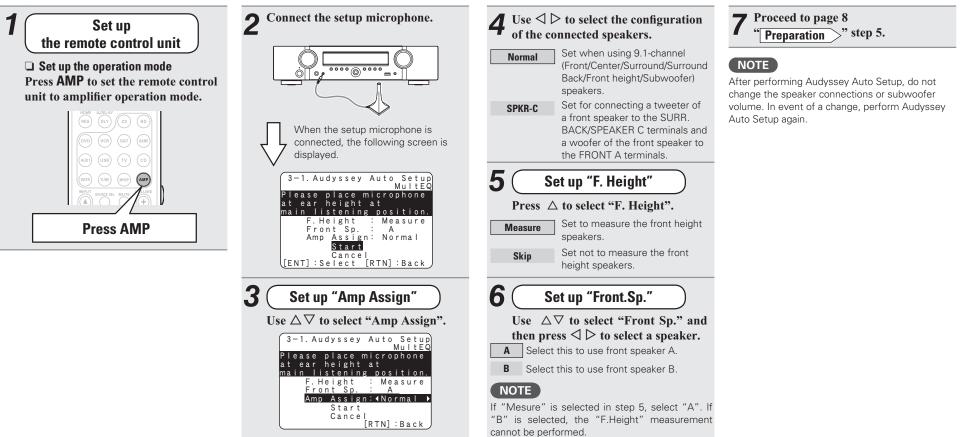
version

Advanced version

around items indicate the settings

This section provides the setup methods of speaker systems other than the 7.1-channel system (with surround back speakers). For the setup methods of the 7.1-channel system with surround back speakers, see "Set up speakers (Audyssey® Auto Setup)" (12) page 6) of "Simple version".

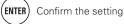
First install and connect the speakers to this unit.



33

Information





# **Connections (Advanced connection)**

# Connecting the remote control jacks

When you use this unit connected to Marantz audio components, it sends operation signals to operate each component.

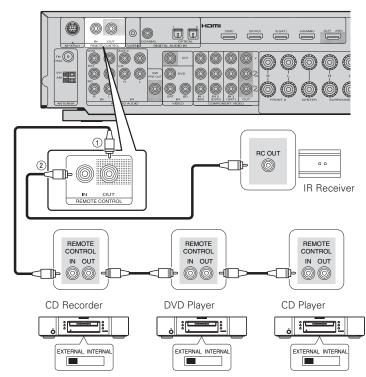
### $\Box$ Connection

Use the remote connection cable (supplied with a Marantz audio component you want to connect) to connect the REMOTE CONTROL OUT terminal of this unit to the REMOTE CONTROL IN terminal of the component to be connected.

### Setting

Set the remote control switch located on the rear panel of the connected audio component to "EXTERNAL" or "EXT." to use this feature.

- This setting will disable remote sensor reception of the connected audio component.
- To operate the connected audio component, point the remote control at the remote sensor of this unit.



# **Playback (Advanced operation)**

Playback (Basic operation) (2 page 21)

### Selecting a listening mode (Surround mode) (P page 26)

- □ HDMI control function (☞ page 35)
- □ Sleep timer function (☞ page 36)
- □ Adjusting the volume of the speakers (☞ page 36)

# **Convenient functions**

# **HDMI** control function

When you make an HDMI connection with a TV or player compatible with this unit and HDMI control functions, you can perform the following operations by setting the HDMI control function of each device.

- This unit power off can be linked to the TV power off step.
- You can switch audio output devices with a TV operation.

When you set "Output audio from amp" in the TV audio output setup operation, you can switch the amp power on.

- You can adjust this unit volume in the TV volume adjustment operation.
- You can switch this unit input sources through linkage to TV input switching.
- When playing the player, this unit input source switches to the source for that player.

### NOTE

- When "HDMI Control" is set to "ON", it consumes more standby power.
- The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.
- Some functions may not operate depending on the connected TV or player. Check the owner's manual of each device for details beforehand.
- When "Power Off Control" on the menu is set to "OFF" (12) page 52), this unit is not set to standby even if the connected device is in the standby mode.
- When connection changes are implemented, such as adding connections to HDMI devices, linked operations may be initialized. In this case, you will need to reconfigure the settings.
- When "HDMI Control" is set to "ON", it is not possible to assign an HDMI connector to "TV" at "Input Assign" (27) page 42).

Enable the HDMI control function of this unit.
Set "HDMI Control" (😰 page 51) to "ON".

# **2** Turn the power on for all the equipment connected by HDMI cable.



- Please consult the operating instructions for the connected equipment to check the settings.
- Carry out steps 1 and 2 should any of the equipment be unplugged.

Switch the television input to the HDMI input connected to this unit.

- **5** Switch this unit input to the HDMI input source and check if the picture from the player is ok.
- **6** When you turn the TV's power to standby, check that the power of this unit also goes to standby.

If the HDMI control function does not operate properly, check the following points.

- Is the TV or player compatible with the HDMI control function?
- Is "HDMI Control" (P page 51) set to "ON"?
- Is "Power Off Control" (P page 52) set to "All" or "Video"?
- Are the HDMI control function settings of all equipment correct?

### NOTE

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat steps 2 and 3.

- "Input Assign" "HDMI" (😰 page 42) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

**Basic version** 

Advanced version

### **Sleep timer function**

The power automatically goes into standby once the set time has elapsed.

9 V.SEL +10

marantz

This is convenient for playing sources while going to sleep.

# Press **SLEEP** and display the time you want to set.

The "SLEEP" indicator on the display lights.

• The time switches as shown below each time **SLEEP** is pressed.

 $\bigcirc \mathsf{OFF} \longrightarrow 10 \text{ min} \longrightarrow 20 \longrightarrow 30 \longrightarrow 40 \longrightarrow 50 \\ 120 \longleftarrow 110 \longleftarrow 100 \longleftarrow 90 \longleftarrow 80 \longleftarrow 70 \longleftarrow 60 \longleftarrow$ 

### To cancel the sleep timer

Press **SLEEP** to set "OFF". The "**SLEEP**" indicator on the display turns off.

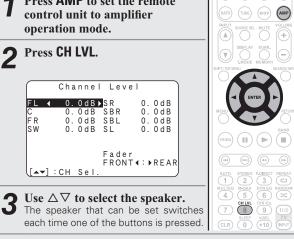
### *.*

The sleep timer setting is canceled if this unit's power is set to standby or turned off.

# Adjusting the volume of the speakers

You can adjust the channel level either according to the playback sources or to your taste, as described below.

# ❑ Adjusting the volume of the different speakers ✓ Press AMP to set the remote



### **1** Use $\triangleleft \triangleright$ to adjust the volume.

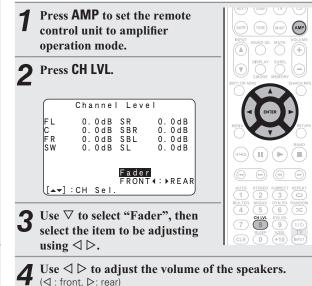
 In the case of a subwoofer, pressing < when it is at "-12 dB" will change the setting to "OFF".

# 6

When a headphone jack is inserted, the headphone channel level can be adjusted.

### Adjusting the volume of groups of speakers (Fader function)

This function lets you adjust (fade) the sound all at once from the front (front speaker / front height speaker / center speaker) or rear (surround speaker / surround back speaker).

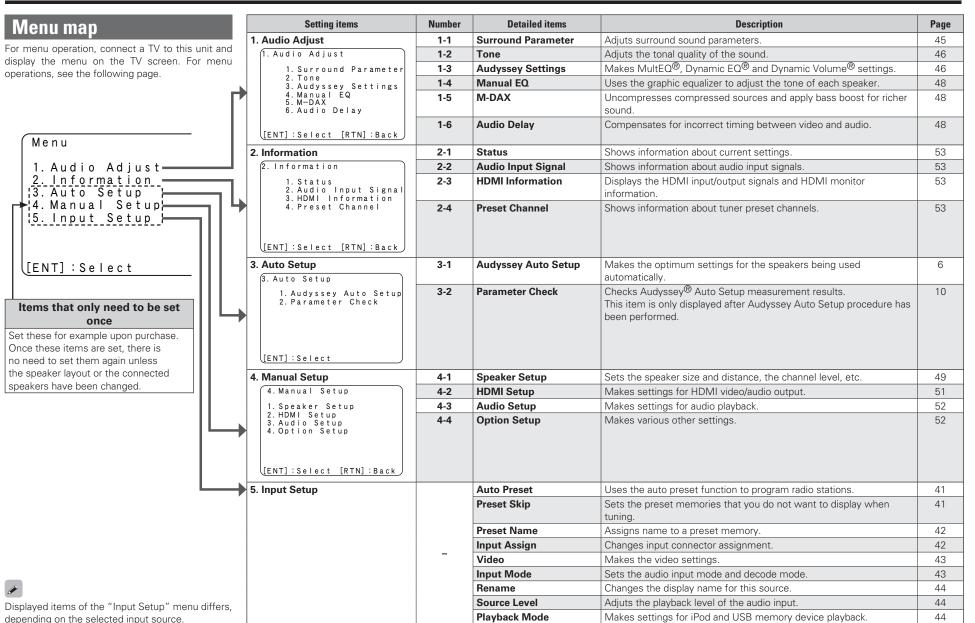


# ø

• The fader function does not affect the subwoofer.

• The fader can be adjusted until the volume of the speaker is adjusted to the lowest value of -12 dB.

# How to make detailed settings



Simple version

Basic

version

Advanced version

Information

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# Examples of on-screen display and front display

Below we describe typical examples of displays on the TV screen and on the set's display window.

	On-screen Display	Front Display	Description
Top menu display	MENU <b>Auto Setup</b> Manual Setup Manual Setup Setup Input Setup <b>3</b> [ENT] : Select	3 (Audio Adjust)	<ul> <li>The menu items are displayed here.</li> <li>The selected line is displayed here. The currently selected item is displayed on the display. Use △∇ to move to the item you want to set.</li> <li>The number of the current selected setting menu is displayed.</li> </ul>
Display when changing settings			<ul> <li>The number of the current selected setting menu is displayed.</li> <li>Use △∇⊲▷ to move to the item you want to set.</li> <li>Press ENTER to set to the mode in which the setting can be made.</li> </ul>
	Press ENTER. Pefault HDMI Digi Comp BD BD BD BD Call t HDMI Digi Comp Call t HDMI Digi Comp DVD 2 2 SAT 4 3 C1 3 GAME AUX1 TV LENT]:Select [RTN]:Back		<ul> <li>Is displayed at the sides of item whose setting can be changed. Use <i change="" desired="" li="" setting.<="" the="" to="" ▷=""> </i></li></ul>
Display when inputting characters	3 5-4. Rename DVD : DVD · Default 2 [SFT] : a/A [SRCH] : KeyBD [ENT] : OK [RTN] : Cancel		<ul> <li>When &lt; ▷ is pressed, the cursor moves to the left or right.</li> <li>When △ ▽ is pressed at the position where you want to input the character, the character is input.</li> <li>The number of the current selected setting menu is displayed.</li> <li>For inputting characters on a keyboard screen or with the number buttons on the remote control unit, see page 39.</li> </ul>
Display when resetting	2 [5-4]. Rename DVD : [DVD ] 1 Default [▲▼] : Up/Down [ENT] : Select [RTN] : Back	Default Press ENTER. Default? : 4 No	<ul> <li>Press ∇ to select "Default", then press ENTER to set.</li> <li>The number of the current selected setting menu is displayed.</li> </ul>

# **Inputting characters**

"Preset Name" (127 page 42) and "Rename" (127 page 44) can be changed as desired.

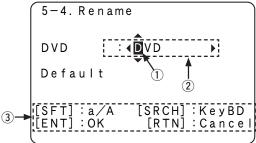
For inputting characters, there are three methods, as shown below.

# Method for inputting characters

Method	Operations
Using the cursor buttons (normal screen)	<ul> <li>Operating with the remote control unit or the main unit.</li> <li>Use △∇&lt;</li> <li>And ENTER to input characters.</li> </ul>
Using the keyboard screen	<ul> <li>Operating with the remote control unit.</li> <li>Select a character on the TV screen to input characters.</li> </ul>

# Normal screen

# Display of a normal input screen



① Cursor

Character input section

3 Guide for operation buttons

• [SFT] SHIFT	Switching upper- and lower-case characters						
• [SRCH] SEARCH	Switching to the keyboard screen	input					
	method						
• [ENT] ENTER	Registering an input character						
• [RTN] RETURN	Canceling an input character						

### Using the cursor buttons

- Display the screen for inputting characters. (P page 37 "Menu map")
- **2** Use  $\triangleleft \triangleright$  to set the cursor to the character you want to change.
- **3** Use  $\triangle \nabla$  to change the character, then press ENTER.
- The types of characters that can be input are as shown below.
- [Upper case characters] ABCDEFGHIJKLMNOPQRSTUVWXYZ [Lower case characters] abcdefghijklmnopqrstuvwxyz [Symbols] '() \* +-./:;<=>?[] [Numbers] 0123456789 (Space)
- The input character type can be switched by pressing **SHIFT/TOP MENU** while the display name is being changed.

**4** Repeat steps 2 and 3 to rename then press **ENTER** to register it.

# Keyboard screen

#### Display of a keyboard input screen 5-4. Rename $\widehat{1}$ ▶ (2) {[DVD] (3) **MBCDEFGHIJKLMNOP** (4)-UVWXYZ () \*+ (5) a/A] OK] (6) [SFT] : a/A [SRCH] : Norma [ENT] : Input [RTN] :Cance

① Cursor

REPEAT

(Ⅲ)(►

(8) (9)

(+

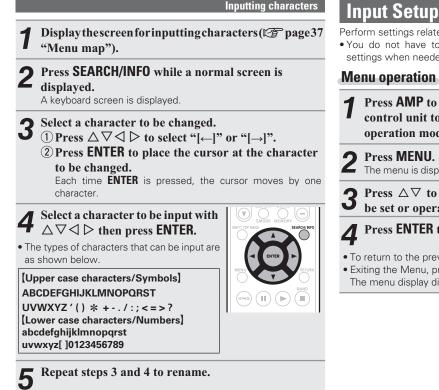
2 Character input section

③ Cursor

- ④ Keyboard section
- (5) Upper (Symbols)- / lower (Numbers)-case character switching key
- 6 Space key7 OK key
- OK key
   OK key
   OK keys
- 9 Guide for operation buttons
- [SFT] SHIFT S • [SRCH] SEARCH F
  - IFTSwitching upper- and lower-case charactersSEARCHFor switching to the normal screen input<br/>method
  - [ENT] ENTER • [RTN] RETURN
- For inputting a selected character Canceling an input character

Simple version

### ENGLISH



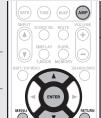


Use  $\triangle \nabla \triangleleft \triangleright$  to select "[OK]", then press **ENTER**.

Perform settings related to input source playback.

. You do not have to change the settings to use the unit. Make settings when needed.

- Press **AMP** to set the remote control unit to amplifier operation mode. Press MENU. The menu is displayed on the TV screen. Press  $\Delta \nabla$  to select the menu to be set or operated. **A** Press **ENTER** to enter the setting.
- To return to the previous item, press RETURN.
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.





Input Setup

Information

Items mat can be set with	i ille illhar Serah hloceaale	2
Auto Preset (🖙 page 41)	Preset Skip (🕼 page 41)	Preset Name (😰 page 42)
5-1. Auto Preset Auto Tuning Preset Station Memory Storing Preset Memory <u>Start</u> [ENT]:Start [RTN]:Back	5-2. Preset Skip         Block       : ▲ A         A Block       : ● A         A FM 98.10MHz       : ON         A FM 98.10MHz       : ON         A FM 90.10MHz       : ON	5-3. Preset Name Block: A A A A 1FM 87. 50MHz: A 2FM 89. 10MHz: A 3FM 98. 10MHz: A 4FM 107. 90MHz: A 5FM 90. 10MHz: A 6FM 90. 10MHz: A 7FM 90. 10MHz: L A8FM 90. 10MHz: [ENT]:Select [RTN]:Back
Input Assign (🖅 page 42)	Video (🖅 page 43)	Input Mode (🖅 page 43)
5-1. Input Assign       Default       HDMI       Digi       Comp       1	5-2.Video Video Select:∢Source → Video Mode : Auto	5-3. Input Mode
([ENT]:Select [RTN]:Back	[RTN] : Back	[RTN] : Back
Rename (🖙 page 44)	Source Level (😰 page 44)	Playback Mode (😰 page 44)
5-4. Rename BD : (BD ) Default	5-5.Source Level Source Level ∶∢ OdB≯	5-6.Playback Mode Repeat Mode :4OFF Shuffle Mode : OFF
[▲▼] : Up⁄Down [◀▶] : Rename [RTN] : Back	[RTN] : Back	[RTN] : Back

### Items that can be set with the Input Setup procedure

Important information

### □ About the display of input sources

In this section, the configurable input sources for each item are shown as follows.

BD	DVD	SAT	GAME	AUX1	USB	TV	CD	AUX2	TUNER	M-XPort	

### NOTE

Input sources that have been set to "Delete" at "Source Delete" (127 page 52) cannot be selected.

### **Auto Preset**

Use the auto preset function to program radio stations.

Setting items	Setting details
Start Start the auto preset process.	If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.
TUNER	

# Preset Skip

#### Default settings are underlined.

Set preset ch to be skipped when selecting.

Setting items	Setting details
A – G	1 - 8 : Set by individual preset channels in the currently selected preset
Set the preset channels you	memory block.
do not want to display. You	• <b><u>ON</u></b> : Display the selected preset channel.
can set by preset memory	• Skip : Do not display the selected preset channel.
block (A to G) or by preset channel (1 to 8).	If you set "Block Presets" to "Skip", you can skip the preset memory blocks (A to G).
TUNER	



#### Input Setup

Preset Name		Setting items			Setting	g details			
Assign a name to a preset m	emory.		HDMI 1 / HDM		- /			41-2-2-1	and the
Setting items	Setting details	<ul> <li>Set this to change the HDMI input connectors assigned</li> </ul>	<b>e</b> 1					the sele	cted inpu
A1 – G8 Select the preset channel. TUNER	<ul><li>Up to eight characters can be input.</li><li>For character input, see page 39.</li></ul>	to the input sources.           BD         DVD         SAT           GAME         AUX1         TV	• At time of pu shown below					· 	
Default The changed preset name is returned to the default setting.	Yes : Reset to the defaults. No : Do not reset to the defaults.		Input source Default setting	BD HDMI 1	DVD HDMI 2	SAT HDMI 3	GAME HDMI 4	AUX1 None	None
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<ul> <li>is displayed a</li> <li>To play the vision signal assigned to the model (Implementation of the model) (Implementation of the model) output to the</li> <li>When "HDMI cannot be assigned to the model) of the model of th</li></ul>	ideo signal ed at "Inpu age 43). nals input monitor. Control" (¤	It Assign" from the a Tpage 51	– "Digita analog ar	nl", select nd digital	t "Digital' connecto	" at "Inpu ors are no
①→→ DVD SAT GAME AUX1 TV I	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Digital Set this to change the digital input connectors assigned to the input sources. BD DVD SAT	C1 (COAXIAL) , None : Do not a • At time of pu shown below	issign a dig irchase, th	ital input c		ifferent ir		
[ENT] : S		GAME AUX1 TV CD AUX2	Default setting	None	None	COA:		None	None
· · · ·	we the highlight to the item you want to set.		Input source	TV	CD	] [AU	X2		
	SHIFTI TOP MENU		Default	OPTICAL	OPTICA				

3 Press ENTER to enter the setting.

# NOTE

assigned.

If all "HDMI", "Digital" and "Component" assignment of the Game source are set to "None", Game source cannot be selected with the input source selection.



# ENGLISH

Simple version

Basic version

Advanced version

Setting items		Setting	details				Setting items	Setting details
Component Set this to change the component video input connectors assigned to the nput sources. BD DVD SAT	Comp1/Comp2/Co None : Do not assig input source. • At time of purcha shown below.	gn a component v	ideo input c				Video ModeMake settings for videoprocessing.BDDVDGAMEAUX1TV	Auto : Process video automatically based on the HDMI content information.         Movie : Process video normally.         Game : Always process video appropriate for game content.         Image: Process video appropriate for game content.
GAME AUX1 TV	Input B source	DVD	SAT	GAME	AUX1	ΙΤ		<ul> <li>If "Video Mode" is set to "Auto", the mode is switched according to t input contents.</li> </ul>
	Default Comp setting 1	onent Component 1 2	Component 3	None	None	e None	Input Mode	Default settings are underlin
	An input source	e to which an com displayed as "-".	oonent video	o input co	onnecto	or cannot	•	r selection may vary depending on the input source.
Default	Yes : Reset to the c	. ,					Setting items	Setting details
The "Input Assign" settings are returned to the default       No : Do not reset to the defaults.         are returned to the default       If you select "Default" and press ENTER, the message "Default Setting?" is displayed. Select "Yes" or "No", and then press ENTER.         Video       Default settings are underlined.         Set the source video.       Set the source video.			<b>Input Mode</b> Set the audio input modes for the different input sources.	Auto : Automatically detect input signal and perform playback. HDMI : Play only signals from HDMI input. Digital : Play only signals from digital input. Analog : Play only signals from analog input. • "HDMI" can be set for input sources for which "HDMI" is assigned "Input Assign" (Ppage 42).				
# "BD", "TV" or "GAME" ca assigned.	1 be set when "HDMI		-	it" (1297 p.	age 43)	has been		<ul> <li>"Digital" can be set for input sources for which "Digital" is assigned "Input Assign" (@ page 42).</li> <li>If the input source is set to "TV" or "Game", it cannot be set to "Analog</li> </ul>
Setting items	of another input         BD / DVD / SAT : Select video input source to view. This can be set for individual input sources.         ned with the playing         * "BD", "TV" and "GAME" can be selected only when a component				s can b		<ul> <li>When digital signals are properly input, the DIG indicator lights of the display. If the DIG indicator does not light, check the digital inpuc connector assignment and the connections.</li> </ul>	
Video Select Video of another input source is played back combined with the playing audio.	BD / DVD / SAT : S individual input sour	rces. d "GAME" can b	e selected o		en a cor	mponent		<ul> <li>If "HDMI Control" is set to "ON" and a TV compatible with the ARC connected via the HDMI MONITOR connectors, the input mode who input source is "TV" is fixed to ARC.</li> <li>This can also be set by pressing <b>A/D</b> on the</li> </ul>





Setting items	Setting details						
Decode Mode Set the decode mode for input source.	Auto : Detect type of digital input signal and decode at <b>PCM</b> : Decode and play only PCM input signals. <b>DTS</b> : Decode and play only DTS input signals.	nd play automatically.					
BD DVD SAT GAME AUX1 TV CD AUX2	<ul> <li>This item can be set for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (127) page 42).</li> <li>Normally set this mode to "Auto". Set "PCM" and "DTS" when inputting the corresponding input signal.</li> <li>This can also be set by pressing <b>D.MODE</b> on the remote control unit.</li> </ul>	LEARN SEND O SOURCE ST (10)					

# Rename

Change the display name of the selected input source.

Setting items	Setting details
Rename	• Up to eight characters can be input.
Change the display name of	• For character input, see page 39.
the selected input source.	
Default	Yes : Reset to the defaults.
The input source name	No : Do not reset to the defaults.
is returned to the default	
setting.	

# **Source Level**

Default settings are underlined.

- This function corrects the playback level of the selected input source's audio input.
- Make this setting if there are differences in the input volume levels between the different sources.

#### Setting details

#### -12dB - +12dB (<u>0dB</u>)

The analog input level and digital input level can be adjusted independently for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (127) page 42).

# Playback Mode

This item can be set when the input source is "USB".

Setting items	Setting details	
Repeat	All : All files are played repeatedly.	
Make settings for repeat	<b>One</b> : A file being played is played repeatedly.	
mode.	Folder : A file in the folder being played is played repeatedly.	
Shuffle	<b>ON</b> : Shuffle playback mode is enabled.	
Make settings for shuffle	<b>OFF</b> : Shuffle playback mode is canceled.	
mode.		







Default settings are underlined.

# **Audio Adjust**

The sound being played in the surround mode can be adjusted to your liking.

The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see "Surround modes and surround parameters" (r page 66).

### Menu operation

-	
<b>1</b> Press <b>AMP</b> to set the remote control mode.	unit to amplifier operation
<b>2</b> Press MENU. The menu is displayed on the TV screen.	
<b>3</b> Press $ riangle  abla$ to select the menu to be se	et or operated.
<b>4</b> Press ENTER to enter the setting.	HEUD STORE
• To return to the previous item, press <b>RETURN</b> . • Exiting the Menu, press <b>MENU</b> while the menu	is displayed.

 Exiting the Menu, press MENU while the menu is displayed. The menu display disappears.

# Items that can be set with the Audio Adjust procedure

Surround Parameter (1277 page 45)

**Tone** (127 page 46)

Audyssey Settings (2 page 46)

Manual EQ (12 page 48)

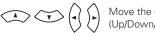
**M-DAX** (C) page 48)

Audio Delay (2 page 48)

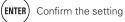
# **Surround Parameter**

Adjust surround sound parameters. It may not be possible to set this item depending on the input signal.

Setting items	Setting details
<b>HT-EQ</b> Soften the treble range of movie soundtracks for better understanding.	ON : "HT-EQ" is used.         OFE : "HT-EQ" is not used.         Image: This can also be set by pressing HT-EQ on the remote control unit.
<b>D.Comp</b> Compress dynamic range (difference between loud and soft sounds).	<b>Low / Mid / High</b> : These set the compression level. <b>OFF</b> : Turn dynamic range compression off.
DRC Compress dynamic range (difference between loud and soft sounds).	Auto       : Automatic dynamic range compression on/off control according to the source. This can be set in the Dolby TrueHD mode.         Low / Mid / High : These set the compression level.         OFF : Dynamic range compression is always off.
LFE Adjust the low-frequency effects level (LFE).	<ul> <li>−10dB - 0dB</li> <li>For proper playback of the different sources, we recommend setting to the values below.</li> <li>Dolby Digital sources : "0dB"</li> <li>DTS movie sources : "0dB"</li> <li>DTS music sources : "-10dB"</li> </ul>
Center Image Assign center channel signal to front left and right channels for wider sound.	0.0 – 1.0 ( <u>0.3</u> )
Panorama Assign front L/R signal also to surround channels for wider sound.	ON : Set. OFF : Do not set.
<b>Dimension</b> Shift sound image center to front or rear to adjust playback balance.	0 – 6 ( <u>3</u> )
<b>Center Width</b> Assign center channel signal to front left and right channels for wider sound.	0 – 7 ( <u>3</u> )



Move the cursor (Up/Down/Left/Right)



Setting items	Setting details	Audyssey Settings	5
Height Gain Control the front height channel volume.	Low : Reduce the front height channel volume. <u>Mid</u> : Front height channel sound is output with standard sound volume. High : Increase the front height channel volume.	Set MultEQ <sup>®</sup> , Dynamic EQ <sup>®</sup> has been performed. For add	and Dynamic Vol
	<ul> <li>NOTE</li> <li>"Height Gain" is displayed for the following settings.</li> <li>When "Amp Assign" (B page 49) is set to "Front Height".</li> <li>When the "Speaker Config." – "Front Height" setting (B page 50) is set to other than "None".</li> </ul>	If you have not performed Au you may not be able to select In this case, either perform Au the settings after Audyssey A	t Dynamic EQ/Dy udyssey Auto Setu
	• When surround mode is "PLIIz" or the PLIIz decoder is used.	Setting items	
<b>Default</b> The "Surround Parameter" settings are returned to the default settings.	Yes : Reset to the defaults. No : Do not reset to the defaults.	MultEQ Select one equalizer from three modes. MultEQ corrects both time and	Audyssey : Op Audyssey Byp front L and R s Audyssey Fla
Tone	Default settings are underlined.	frequency response problems in the listening	response. Manual : Apply
Adjust the tonal quality of the	sound.	area based on Audyssey Auto Setup calibration. We	OFF : Turn "M
Setting items Tone Control Set the tone control function	Setting details ON : Allow tone adjustment (bass, treble). OFF : Playback without tone adjustment.	recommend "Audyssey". MultEQ is the prerequisite function for Dynamic EQ and Dynamic Volume.	• "Audyssey", selected after is automatica

Default settings are underlined.

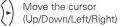
/olume ${}^{m{(\!R)}}$ . These can be selected after Audyssey ${}^{m{(\!R)}}$  Auto Setup ion on Audyssey technology, please see page 70.

ou change the speaker settings after performing Auto Setup, Dynamic Volume, and "Run Audyssey" may be displayed. etup over again or perform "Restore" (🕼 page 10) to return to run.

" or the PLIIz decoder is used.	Setting items	Setting details
Default settings are underlined.	MultEQ Select one equalizer from three modes. MultEQ corrects both time and frequency response problems in the listening area based on Audyssey Auto Setup calibration. We	Audyssey : Optimize the frequency response of all speakers.         Audyssey Byp.L/R : Optimize frequency response of speakers except front L and R speakers.         Audyssey Flat : Optimize frequency response of all speakers to flat response.         Manual : Apply frequency response set with "Manual EQ" (12) page 48).         OFF : Turn "MultEQ" equalizer off.
ting details	recommend "Audyssey".	<ul> <li>"Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be</li> </ul>
s, treble). Istment. hen "Dynamic EQ" (127 page 47) is set to	MultEQ is the prerequisite function for Dynamic EQ and Dynamic Volume.	<ul> <li>Addyssey , Addyssey Byb. L/A and Addyssey Plat Can be selected after Addyssey Auto Setup has been performed. "Addyssey" is automatically selected after performing Addyssey Auto Setup. When "Addyssey", "Addyssey Byb. L/R" or "Addyssey Flat" is selected, addyssey illuminates.</li> <li>After running Addyssey Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Freq. have changed without increasing the number of speakers measured, only Addrese illuminates.</li> </ul>
he direct mode.		Press <b>MULTEQ</b> on the remote control unit to set this setting.
		NOTE
Fone Control" is set to "ON".		• "MultEQ" and "Manual" cannot be selected when "EQ Customize" is set to "Not Used" (@ page 52).
		• When using headphones, "MultEQ" is automatically set to "OFF".

### Ton

Setting items	Setting details	
<b>Tone Control</b> Set the tone control function to ON and OFF.	<ul> <li>ON : Allow tone adjustment (bass, treble).</li> <li>OFF : Playback without tone adjustment.</li> <li>"Tone Control" can be set when "Dynamic EQ" (12) page 47) is set to "OFF"</li> </ul>	
	NOTE The tone cannot be adjusted in the direct mode.	
<b>Bass</b> Adjust low frequency range (bass).	<ul> <li>-6dB - +6dB (0dB)</li> <li>"Bass" can be set when "Tone Control" is set to "ON".</li> </ul>	
<b>Treble</b> Adjust high frequency range (treble).	<ul> <li>-6dB - +6dB (<u>0dB</u>)</li> <li>"Treble" can be set when "Tone Control" is set to "ON".</li> </ul>	





# ENGLISH

0		O differentia de la companya de la c	Audio Adjust	S
Setting items Dynamic EQ® Solve the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Works with MultEQ.	Setting details         ON: Use Dynamic EQ.         OFF: Do not use Dynamic EQ.         Image: Setting details         Image: Setils     <	Setting items Dynamic Volume <sup>®</sup> Solve the problem of large variations in volume level between TV, movies and other content (between quiet passages and loud passages, etc.) by automatically adjusting to the user's preferred volume	Setting details Heavy : Most adjustment to softest and loudest sounds. Medium : Medium adjustment to loudest and softest sound. Light : Least adjustment to loudest and softest sounds. OFF : Do not use the "Dynamic Volume".  Improved to "ON". If "Dynamic Volume" is set to "ON". If "Dynamic Volume" is set to "Yes" in Auto Setup (marked page 9), the setting is automatically	Simple version Basic
Reference Level Offset Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.	<ul> <li>OdB (Film Ref) : This is the default setting and should be used when listening to movies.</li> <li>5dB : Select this setting for content that has a very wide dynamic range, such as classical music.</li> <li>10dB : Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.</li> <li>15dB : Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.</li> <li>Setting is enabled when "Dynamic EQ" is "ON" (12) page 47).</li> </ul>	setting.	<pre>changed to "Heavy". • This can also be set by pressing DYN VOL on the remote control unit. Each time DYN VOL is pressed, the setting is changed as shown below.</pre>	ic version Advanced version



# **Manual EQ**

### Default settings are underlined.

Use the graphic equalizer to adjust the tone of each speaker. "Manual EQ" can be set when "MultEQ<sup>®</sup>" setting (ICP page 46) is "Manual".

Setting items	Setting details
Adjust CH	① Select the speaker tone adjustment method.
Correct the tone of each	All CH : Adjust the tone of all speakers together.
speaker.	L/R CH : Adjust the tone of left and right speakers together.
	Each CH : Adjust the tone of each speaker.
	<ol> <li>Select the speaker.</li> </ol>
	③ Select the adjustment frequency band.
	63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz
	<ul> <li>Select the speakers you want to adjust when "L/R" or "Each" is selected.</li> </ul>
	④ Adjust the level.
	-20.0dB - +6.0dB (0.0dB)
Base Curve Copy	Yes : Copy.
Copy "Audyssey Flat" curve	No : Do not copy.
from MultEQ.	"Base Curve Copy" is displayed after Audyssey Auto Setup has been performed.
Default	Yes : Reset to the defaults.
The "Manual EQ" settings	No : Do not reset to the defaults.
are returned to the default	
settings.	

# M-DAX

Compressed audio formats such as MP3, WAV, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The M-DAX function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.

#### Setting details

**OFF** : Do not use M-DAX. **Low** : Optimized mode for compressed sources with normal highs.

- Mid : Apply suitable bass and treble boost for all compressed sources.
- **High** : Optimized mode for compressed sources with very weak highs.
  - . Optimized mode for compressed source

### 

- $\bullet$  This item can be set with analog signals or when a PCM signal (fs = 44.1/48 kHz) is input.
- This cannot be set when the surround mode is set to "DIRECT".
- When set to "OFF", the M-DAX indicator on the front panel switches off.
- This can also be set by pressing **M-DAX** on the remote control unit.

AUTO STEREO P.DIRECT REPEAT 1 2 3 0 MULTEQ M-DAX DYN EQ RANDOM 4 6 X

# **Audio Delay**

#### Default settings are underlined.

While viewing video, manually adjust the time to delay audio output.

#### Setting details

RETURN

# <u>0ms</u> – 200ms

- This item can be set within the range of 0 to 200 ms when "Auto Lip Sync" is set to "ON" and when a TV compatible with Auto Lip Sync is connected.
- Store "Audio Delay" for each input source.
- Audio Delay for game mode can be set when "Video Mode" (1277 page 43) is set to "Game".
- You can also adjust the time to delay audio output after pressing **DLY** followed by the ⊲ ▷ on the remote control, instead of using the menu operation.







# **Manual Setup**

Set when changing Audyssey<sup>®</sup> Auto Setup settings, or when changing the audio, video, display or other settings.

- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to set MultEQ<sup>®</sup>, Dynamic EQ<sup>®</sup> and Dynamic Volume<sup>®</sup> (CP page 46, 47).
- Can be used without changing the settings. Please set if necessary.

### Menu operation

<b>1</b> Press <b>AMP</b> to set the remote control unit to amplifier mode.	
<b>Press MENU.</b> The menu is displayed on the TV screen.	
<b>3</b> Press $ riangle  abla$ to select the menu to be set or operated.	SHIFTI TOP MENU
<b>4</b> Press ENTER to enter the setting.	MENU
• To return to the previous item, press <b>RETURN</b> . • Exiting the Menu, press <b>MENU</b> while the menu is displayed.	

The menu display disappears.

### Items that can be set with the Manual Setup procedure

Speaker Setup (😰 page 49)	HDMI Setup (🕼 page 51)	Audio Setup (🖅 page 52)
<ul> <li>4-1. Speaker Setup</li> <li>1. Amp Assign</li> <li>2. Speaker Config.</li> <li>3. Bass Setting</li> <li>4. Distance</li> <li>5. Channel Level</li> <li>6. Crossover Freq.</li> </ul>	4-2. HDMI Setup Auto Lipsync : ON HDMI Audio Out : Amp HDMI Control : OFF	4-3. Audio Setup 1. EQ Customize
7.Front Sp Setup [ENT]:Select [RTN]:Back	[RTN] : Back	[ENT]:Select [RTN]:Back

#### Option Setup (12 page 52)

4-4. Option Setup 1. Volume Control 2. Source Delete 3. On-Screen Display 4. Display 5. Setup Lock

[ENT]:Select [RTN]:Back



- Default settings are underlined.
- Perform when setting the speakers manually or when changing settings made in Audyssey Auto Setup.
- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to select MultEQ, Dynamic EQ and Dynamic Volume (2) page 46, 47).
- Manual Setup can be used without changing the settings. Please set if necessary.

**Speaker Setup** 

Setting items Setting details	
Amp Assign Set the speakers connected to this unit.	<b>Normal</b> : Set when using 9.1-channel (Front/Center/Surround/Surround Back/Subwoofer) speakers. <b>SPKR C</b> : Set for connecting a tweeter of a front speaker to the SURR. BACK/SPEAKER C terminals and a woofer of the front speaker to the FRONT A terminals.
Speaker Config. Select speaker configuration and size (bass reproduction capability). NOTE Do not use the outward shape of the speaker to determine selection of a "Large" or "Small" speaker. Instead, use the frequencies set in "Crossover Freq." (For page 51) as the standard for determining bass reproduction capability.	<ul> <li>Front : Set the front speaker size.</li> <li>Large : Use a large speaker that can adequately play back low frequencies.</li> <li>Small : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>When "Subwoofer" is set to "No", "Front" is automatically set to "Large".</li> <li>When "Front" is set to "Small", "Center", "Surround", "Surround Back" and "Front Height" can not be set to "Large".</li> <li>Center : Set the presence and size of the center speaker.</li> <li>Large : Use a large speaker that has inadequate playback capacity for low frequencies.</li> <li>Small : Use a small speaker that can adequately play back low frequencies.</li> <li>Small : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>None : Select when a center speaker is not connected.</li> <li>"Large" is not displayed when "Front" is set to "Small".</li> <li>Subwoofer : Set the presence of a subwoofer.</li> <li>Yes : Use a subwoofer.</li> <li>When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".</li> </ul>

Simple version

```
Manual Setup
```

Speaker Config.         Surround         Surround



# ENGLISH

Simple version

Basic version

Advanced version

Information

Setting items	Setting details	Setting items	Setting details	
Channel Level Set the volume of the test cone to be the same when it s output from each speaker.		Front Speaker Setup Set the front speakers to use for every surround mode.	<ul> <li>A : Front speaker A is used.</li> <li>B : Front speaker B is used.</li> <li>You can switch speakers by pressing SPKR A/B on the remote control.</li> </ul>	SOURCE SET STANDBY (10) C C C C C C C C C C C C C C C C C C C
SOURCE SET STANDBY ON	"1sp", "S.Back" is displayed. • -12.0dB - +12.0dB ( <u>0.0dB</u> ) : Adjust the volume.	HDMI Setup		ettings are underline
DWODE AND TONE A/B HDMI A,DELAY RES DLY ZZ BD	• When ⊲ is pressed while the subwoofer volume is set to "-12 dB", the "Subwoofer" setting switches to "OFF".	Make settings for HDMI video		
	• When "Channel Level" is adjusted, the adjusted values are set for all the	Setting items	Setting details	
	<ul> <li>surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 36.</li> <li>When you press <b>TEST TONE</b> on the remote control, you can enter this setting item immediately.</li> </ul>	Auto Lip Sync Make automatic compensation for timing shift in audio and video output.	<b><u>ON</u></b> : Compensated. <b>OFF</b> : Not compensated.	
	• Speakers set to "None" in the "Speaker Config." (1277 page 49) settings are not displayed. • When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed.	HDMI Audio Out Select HDMI audio output device.	Amp : Play back through speakers connected to the TV : Play back through TV connected to the receive When the HDMI control function is activated, pr	er. iority is given to the T\
	<b>Default</b> : The "Channel Level" settings are returned to the default settings.	HDMI Control You can link operations with devices connected to HDMI	audio setting (Page 35 "HDMI control funct ON : Use HDMI control function.	tion").
	<ul> <li>Yes : Reset to the defaults.</li> <li>No : Do not reset to the defaults.</li> </ul>		OFF : Do not use HDMI control function.	
Crossover Freq. Set the maximum frequency of the bass signal output from each channel to the subwoofer. Set the Crossover Freq. to suit the bass reproduction capability	Crossover : Set the crossover frequency. • 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz Advanced : Specify crossover frequency for each speaker. • Front / Center / Surround / S.Back / Front Height : Select the speaker. • 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz /	<ul> <li>and compatible with HDMI Control.</li> <li>When a device that is not compatible with the HD connected, set "HDMI Control" to "OFF".</li> <li>Please consult the operating instructions for each of to check the settings.</li> <li>Refer to "HDMI control function" (P page 35) for m the HDMI control function.</li> <li>NOTE</li> <li>When "HDMI Control" is set to "ON", it cons power. If you are not using this unit for an e recommended that you unplug the power cord fro "HDMI Control" does not work when the power to Either turn power on or set to standby.</li> <li>The HDMI control function. Make sure that is connected when you perform HDMI control.</li> <li>If the "HDMI Control" settings have been change power to connected devices after the change.</li> </ul>		connected componen
of the speaker being used.	<ul> <li>250Hz : Set the crossover frequency.</li> <li>"Crossover Freq." can be set when the "Bass Setting" – "Subwoofer Mode" (@ page 50) setting is "LFE+Main", or when you have a speaker that is set to "Small".</li> <li>Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.</li> <li>For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.</li> <li>The speakers that can be set when "Advanced" is selected differ depending on the "Subwoofer Mode" setting (@ page 50).</li> <li>When "LEE" is colored speakers set to "Small" at "Speaker Config."</li> </ul>			extended period, it is on the power outlet. o the equipment is off a TV that is compatible the TV and HDMI are ged, always reset the
	<ul> <li>When "LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made.</li> <li>If set to "LFE+Main", this setting can be made regardless of the speaker size.</li> </ul>	Standby Source Sets the HDMI input source to put into standby when the power is on.	HDMI1 / HDMI2 / HDMI3 / HDMI4 : Put the respe standby.	ctive input source int





Setting items	Setting details	<b>Option Setup</b>
<b>Power Off Control</b> Links the power standby	All : If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby.	Make various other set
of this unit to external	Video : If power to a connected TV is turned off when the input source	Setting items
equipment.	<ul> <li>is BD / DVD / SAT / GAME / AUX1, power to this unit is automatically set to standby.</li> <li><b>OFF</b> : This unit does not link with power to a TV.</li> </ul>	Volume Control Set the volume setting
	"Power Off Control" can be set when "HDMI Control" is set to "ON".	

# Audio Setup

#### Default settings are underlined.

Make settings for audio playback.

Setting items	Setting details
EQ Customize	Audyssey Byp. L/R : Set when not using "Audyssey Byp. L/R" equalizer.
Set so that unused equalizer	• <u>Used</u> : Use.
settings are not displayed	• Not Used : Do not use.
when <b>MULTEQ</b> is pressed.	Set so that "Audyssey Byp. L/R" settings can be made when Audyssey Auto Setup is performed.
AITO STEREO POPECT REPAT (1) (2) (3) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	<ul> <li>Audyssey Flat : Set when not using "Audyssey Flat" equalizer.</li> <li>Use.</li> <li>Not Used : Do not use.</li> <li>Set so that "Audyssey Flat" settings can be made when Audyssey Auto Setup is performed.</li> </ul>
	Manual : Set when not using the "Manual" equalizer.
	• <u>Used</u> : Use.
	Not Used : Do not use.

### Default settings are underlined.

ettings.

Setting items	Setting details
Volume Control	Volume Display : Set how volume is displayed.
Set the volume setting.	• <u><b>Relative</b></u> : DisplaydB (Min), in the range –80.5 dB – 18 dB.
	• Absolute : Display in the range 0 (Min) – 99.
	The "Volume Display" setting is applied also to the "Volume Limit" and "Power On Level" display method.
	Volume Limit : Make a setting for maximum volume.
	• <b>OFF</b> : Do not set a maximum volume.
	• –20dB (61) / –10dB (71) / 0dB (81)
	Power On Level : Define the volume setting that is active when the
	power is turned on.
	• Last : Use the memorized setting from the last session.
	<ul> <li></li></ul>
	Mute Level : Set the amount of attenuation when muting is on.
	• <b>Full</b> : The sound is muted entirely.
	• <b>-40dB</b> : The sound is attenuated by 40 dB down.
	• -20dB : The sound is attenuated by 20 dB down.
Source Delete	BD / DVD / SAT / GAME / AUX1 / USB / TV / CD / AUX2 / TUNER /
Remove from the display	M-XPort : Select input source that is not used.
input sources that are not	• <u>ON</u> : Use this source.
used.	• Delete : Do not use this source.
	NOTE
	Input sources set to "Delete" cannot be selected using <b>SOURCE SELECT</b> .
On-Screen Display	Screensaver : Make screensaver settings.
Make the settings related to	• ON : The screen saver is activated during menu display, iPod or TUNER
displays on the TV screen.	screen display if no operation is performed for an approximately 3-minute
	continuous period. When you press $\Delta \nabla \triangleleft \triangleright$ , the screensaver is
	cancelled and the screen before that screen saver started is displayed.
	• OFF : Screensaver is not activated.
	Text : Display the details of operation when switching surround mode,
	input mode, etc.
	• <u>ON</u> : Turn display on.
	• OFF : Turn display off.
	Master Volume : Display the master volume during adjustment.
	• <b>Bottom</b> : Display at the bottom.
	• Top : Display at the top.
	• OFF : Turn display off.
	When the master volume display is hard to see when superimposed
	on movie subtitles, set to "Top".





	Manual Setup	Information
Setting items	Setting details	Show information about receiv
<b>On-Screen Display</b> (Continued)	<ul> <li>USB : Set the USB screen display time when the input source is "USB".</li> <li>Always : Show display continuously.</li> <li><u>30sec</u> : Show display for 30 seconds after operation.</li> <li>10sec : Show display for 10 seconds after operation.</li> <li>OFF : Turn display off.</li> <li>TUNER : Set the tuner screen display time when the input source is</li> </ul>	Items Status Show information about current settings.
	<ul> <li>* TUNER".</li> <li>* Always : Show display continuously.</li> <li>* <u>30sec</u> : Show display for 30 seconds after operation.</li> <li>* 10sec : Show display for 10 seconds after operation.</li> <li>* OFF : Turn display off.</li> </ul>	<b>Audio Input Signal</b> Show information about audio input signals.
<b>Display</b> Set the display on/off setting.	ON : Display is always on.         Display Auto OFF : Display is off except when showing the status display.         Display OFF : Display is always off.         Image: A constraint of the status display.         Display OFF : Display is always off.         Image: A constraint of the status display.         Display OFF : Display is always off.         Image: A constraint of the status display.         Image: A constraint of the status display.         Display OFF : Display is always off.         Image: A constraint of the status display.         Image: A constraint di	
Setup Lock Protect settings from	► ON → Display Auto Off → Display OFF →	
inadvertent change.	When canceling the setting, set "Setup Lock" to "OFF". NOTE When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt	HDMI Information Show information about HDMI input/output signals and monitor. Preset Channel
	to operate related settings. • Menu operations · Dynamic EQ <sup>®</sup> • M-DAX · Dynamic Volume <sup>®</sup> • MultEQ <sup>®</sup> · Channel Level	Show information about preset channels.

Show information about rece	iver settings, input signals, etc.		
Items	Setting details		
<b>Status</b> Show information about current settings.	Select Source / Name / Surround Mode / Input Mode / Decode Mode / Video Select / Video Mode / Content Type etc. NOTE The information displayed differs according to the input source.		
Audio Input Signal Show information about audio input signals.	<ul> <li>Surround Mode : The currently set surround mode.</li> <li>Signal : The input signal type.</li> <li>fs : The input signal's sampling frequency.</li> <li>Format : The number of channels in the input signal (front, surround, LFE).</li> <li>Offset : The dialogue normalization correction value.</li> <li>Flag : This is displayed when inputting signals including a surround back channel. "MATRIX" is displayed with Dolby Digital EX and DTS-ES Matrix signals, "DISCRETE" with DTS-ES Discrete signals.</li> </ul>		
	Dialogue normalization function This function is automatically activated when playing Dolby Digital sources. It automatically corrects the standard signal level for individual program sources. The correction value can be checked using STATUS.		
	The figure is the corrected value. This cannot be changed.		
HDMI Information Show information about HDMI input/output signals and monitor.	HDMI Signal Information • Resolution / Color Space / Pixel Depth HDMI Monitor Information • Interface / Suport Resolution		
Preset Channel Show information about preset channels. TUNER	A / B / C / D / E / F / G A1 – A8 / B1 – B8 / C1 – C8 / D1 – D8 / E1 – E8 / F1 – F8 / G1 – G8		

Simple version



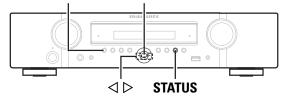
53

# **Other settings**

# **Remote control settings**

- When you connect a remote control receiver unit (purchased separately) to the REMOTE CONTROL IN terminal of this unit, use the following procedure to disable the remote sensor function of this unit.
- The remote sensor function of remote control signals is enabled by default.

### SURROUND MODE ENTER



- Disabling the sensor function of the remote control
- To enable the remote signal sensor function, press and hold SURROUND MODE and STATUS for 3 seconds. "IR:< ENABLE >" is displayed.

**7** Press  $\triangleleft \triangleright$  to select "DISABLE".

### **?** Press ENTER.

The sensor function of the remote control signal of this unit is disabled.

□ Enabling the remote sensor function

- To disable the remote signal sensor function, press and hold SURROUND MODE and STATUS for 3
- seconds.

"IR:< DISABLE >" is displayed.

### Press $\triangleleft \triangleright$ to select "ENABLE".

#### **3** Press ENTER. The sensor func

The sensor function of the remote control signal of this unit is enabled.

### NOTE

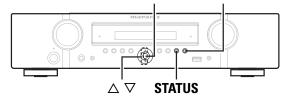
If a remote control receiver unit (purchased separately) is not connected, do not perform this setting. If you do, you will not be able to operate this unit using the remote control.

# Switching the on-screen display output mode

Set whether the menu is operated by the monitor connected to the VIDEO OUT terminal or the monitor connected to the COMPONENT VIDEO MONITOR OUT terminal.

• The factory setting is "Comp".

# ENTER PURE DIRECT



# Press and hold STATUS and PURE DIRECT for 3 seconds.

Corresponding to the video signal format settings, "OSD Out: ◀ Comp ►" or "OSD Out: ◀Video ►" is shown in the display.

# **Press** $\triangle \nabla$ to change the settings according to the connection method.

<b>Press ENTER</b> to enter the setting.			
	to a TV.		
Video	Set when the VIDEO OUT connector is connected		
	connector is connected to a TV.		
Comp	Set when the COMPONENT VIDEO MONITOR OUT		

### NOTE

When operating the on-screen display menu using the monitor connected to the HDMI OUT terminal, either setting may be used without problem.

# **Operating the connected devices by remote control unit**

Registering the supplied preset codes in the remote control unit enables you to operate devices made by other manufacturers.

# **Operating AV equipment**

# Press the input source select button (1277 page 21).

The operation mode of the remote control unit is switched as shown in the table.

### NOTE

Press the input source select buttons once to switch the operation mode of the remote control unit supplied with this unit.

Press the input source select buttons twice consecutively to switch the operation mode of the remote control unit and input source of this unit.

ſ	LEARN SEND	)
	0 0	
	SOURCE SET STANDBY ON 1/0 TEST SPKR	
	(D.WODE) (A/D) (TONE) (A/B) HDMI ADELAY	
	(RES) (DLY) (Z2) (BD)	
	(DVD) (VCR) (SAT) (GAME) (AUX1) (USB) (TV) (CD)	L
	(SATR) (TUNE) (M-XP) (AMP)	
	NPUT SOURCE SEL MUTE	ľ
		ľ
	TIMODE MEMORY SHIFT/TOP MENU	
		L.

Input source select buttons	Input source of this unit	Devices controllable with the remote control unit (Operation mode)
(BD) *	BD	Device registered on the <b>BD</b> button
DVD *	DVD	Device registered on the <b>DVD</b> button
(SAT) *	SAT	Device registered on the <b>SAT</b> button
GAME	GAME	Device registered on the <b>GAME</b> button
AUX1	AUX1	Device registered on the <b>AUX1</b> button
USB	USB	Device registered on the <b>USB</b> button
<b>(TV) *</b>	TV	Device registered on the <b>TV</b> button
(CD) *	CD	Device registered on the <b>CD</b> button
TUNE	TUNER	Radio of this unit
(M-XP)	M-XPort	Device registered on the <b>M-XP</b> button

\* If a preset code is registered for this button, the remote control unit of this unit can control another devices.

### NOTE

If the mode of the remote control unit is set to other than ampoperation mode, press **AMP** to switch the remote control unit to the amp-operation mode to perform the following operations:

- For menu operation by pressing **MENU**
- For setting the channel level of the unit by pressing CH LVL
- For performing direct playback
- For switching the MultEQ, Dynamic EQ, and Dynamic Volume settings.
- For using the Video Select function.
- For using the sleep timer function.
- For displaying the Source Select screen.
- For switching the M-DAX function.
- For directly selecting "AUTO" and "STEREO" of the listening modes.

# **2** Operate this unit or the device whose input source is switched.

- For details, refer to the operating instructions for each device. For operations of iPod and TUNER, see the following pages.
- iPod (P page 22)
- TUNER (😰 page 25)

# **Registering preset codes**

When preset codes are registered in the included remote control unit, it can then be used to operate any devices you have, such as DVD players or TVs made by different manufacturers.

# Buttons used for operating the devices SOURCE ON/OFF

- For switching power of each device on or off. (2)  $\Delta \nabla \triangleleft \triangleright$ . ENTER
- For menu operation of each device. (3) **MENU**, **SETUP**, **TOP MENU**
- For displaying the menu of each device.
- ④ ▶, ■, II, ´◀◀, ▶▶, I◀◀, ▶▶I
- (5) Number button (0 9, +10)
- 6 PRESET +, PRESET -
- ⑦ TV POWER, TV INPUT For operating a TV
- This button is enabled in any mode.

For details on operation with the remote control unit, see pages 22 to 23, 25, and 57.

### Default settings for preset codes

The devices shown below are registered for each input source button as default. Settings can be changed according to the devices to be used.

Input source select buttons	Category	Preset code
BD	Blu-ray Disc player	5000
DVD	DVD player	2000
TV	Television	1000
SAT	Satellite set top box	4000
СD	CD player	3000

### NOTE

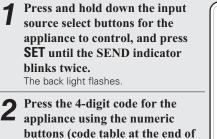
- $\bullet$  No preset codes other than  $BD,\ DVD,\ TV,\ SAT$  and CD can be registered.
- In the factory settings, remote control codes for all Marantz products are registered.

Advanced version

**Basic version** 

#### Registering preset codes

### **Programming with the 4-digit code**



ON

BD

SAT

TV CD

SET

this book). When the procedure is successful, the

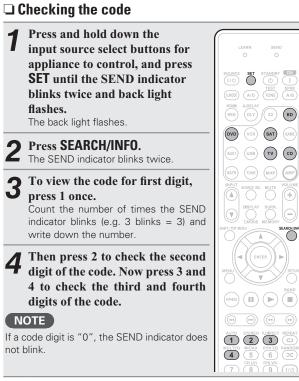
SEND indicator blinks twice.

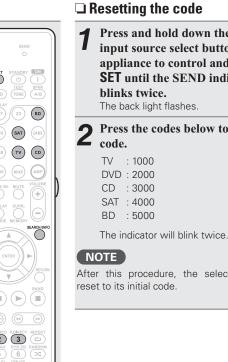
### NOTE

If the indicator did not blink twice, then repeat steps 1 and 2 and try entering the same code again.

### □ Scanning the code table

1	Switch on the appliance to control.	LEARN SEND O O
2	Press and hold down the input source select buttons for the appliance to control, and press SET until the SEND indicator blinks twice. The back light flashes.	SOLINCE     ST     STANDBY     CR       1/0     O     O     SPAR       AMSS     A/D     TONS     A/D       NOME     AMS     C2     DD       ODD     V/R     GAR     A/D       AMSLAY     C2     DD       ODD     V/R     GAR     A/D       A/D1     U/B     TY     CD
3	Aim the remote control at the appliance and slowly alternate between pressing <b>INPUT A</b> and the input source select buttons for the appliance.	
4	Stop when the appliance turns off.	MENU RETUR
5	Press <b>ENTER</b> once to lock in the code.	BAND





: 5000

e	
ons for	LEARN SEND
l press	
icator	SOURCE SET STANDBY ON 1/0 0 10 10 10 10 10 10 10 10 10 10 10 10
	D.NODE A/D TONE A/B
	RES DLY Z2 BD
reset the	OVD VCR SAT GAME
	AUX1 USB TV CD
	SATR TUNE M-XP AMP
	SOURCE SEL MUTE VOLUME
	T.MODE MEMORY
	SHIFT/TOP MENU SEARCH/INFO
ted source	MENU RETURN
	HT-EQ

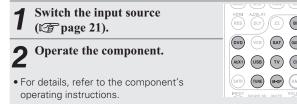
Simple version

**Basic version** 

Advanced version

# **Operating components**

The supplied remote control unit can control a component other than this unit.



# BD GAME AMP

### □ Blu-ray Disc player / HD-DVD player / **DVD** player / **DVD** recorder operation

SEND	<b>Operation buttons</b>	Function
•	SOURCE ON/OFF	Power on/standby
	MENU	(Popup) Menu
A (B)	TOP MENU	Top menu
		Cursor operation
511	ENTER	Enter
	<b>44 &gt;&gt;</b>	Manual search (fast-reverse/fast-forward)
$\Theta$	•	Playback
O		Auto search (cue)
)	II	Pause
O I		Stop
	0 – 9	Select title, chapter or channel selection
	CLR	Clear the inputting
	TV POWER	TV power on/standby (Default : Marantz)
	TV INPUT	Switch TV input (Default : Marantz)

# **CD** player / CD recorder operation

LEARN SEND	<b>Operation buttons</b>	Function
0 0	SOURCE ON/OFF	Power on/off
SOURCE ST STANDAY CON TO STANDAY STA		Manual search (fast-reverse/fast-forward)
	•	Playback
		Auto search (cue)
	11	Pause
		Stop
	CLR	Clear the inputting
	TV POWER	TV power on/standby (Default : Marantz)
	TV INPUT	Switch TV input (Default : Marantz)

# □ Set top box for satellite (SAT) operation

Operation but	LEARN SEND
SOURCE ON/	• •
PRESET +,	S SET STANDEY
	AD TONE AIB
ENTER	
0 – 9	) (0.89) (TV) (CO)
CLR	
TV POWER	SCOREZ SEL MUTE VOLUME
TV INPUT	
	marantz RC010SR

ttons Function /OFF Power on/standby \_ Switch channels (up/down) Cursor operation Enter Channel selection Clear the inputting TV power on/standby (Default : Marantz) Switch TV input (Default : Marantz)

### **TV** operation

 $\odot$ 

marantz RC010SR

marantz RC010SR

en seno	<b>Operation buttons</b>	Function
0	SOURCE ON/OFF	TV power on/standby
	SOUNCE ON/OTT	(Default : Marantz)
	PRESET +, -	Switch channels (up/down)
	CLR	Clear the inputting
	TV POWER	TV power on/standby
	IVPUVEN	(Default : Marantz)
CE SEL MUTE VOLUME	TV INPUT	Switch TV input
	IVINPUT	(Default : Marantz)

### ENGLISH

# **Operating learn mode**

This remote control unit is capable of learning and storing codes used by other remote controls that you already own.

For codes which are not learned, the remote control unit will transmit either the Marantz preset codes from the initial settings, or remote codes from another manufacturer's AV equipment which is set by the customer.

The receiver sensor for the remote control unit signals is located at the top of the remote control unit.

# ø

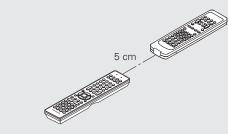
This remote control unit is capable of learning around 160 codes.

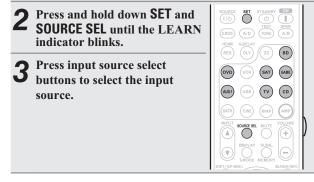
### NOTE

The learning procedure does not operate correctly if the batteries have become worn.

### Learning procedure

Place the remote control unit so that its infrared signal transmitter is facing the infrared signal receiver on the Marantz remote control unit at a distance of about 5 cm.







**4** Select the button to be LEARN indicator lights up. Select the button to be learned.

### NOTE

- The learning function is unavailable for all **SOURCE** and **D.MODE** in anv mode.
- The learning function is unavailable for all buttons in TUNER mode and AMP mode.

5 Press and hold the button of the original remote control unit to be learned until the SEND indicator blinks twice.

NOTE

- If the SEND indicator blinks once, repeat this step.
- If the LEARN indicator flashes when the SEND indicator is lit, then the button cannot be learned.
- When the memory of the remote control unit is full, the LEARN and SEND indicators blink once. If you want to learn the code, you need to erase a different learned button.

Repeat steps 4 and 5 to learn other buttons for the O same input source.

Repeat steps 3 to 6 to learn other input sources.

### When programming of the remote control unit is completed, press SET.

The LEARN display disappears, and the remote control unit exits learn mode.

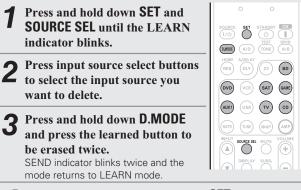
### ( NOTE )

- When the SEND indicator blinks once again, the transmitting code is unavailable for remote control unit, or the transmitting signal has been interrupted by noise.
- If no buttons are pressed for approximately 1 minutes while in the LEARN mode, the remote control unit automatically exits from the LEARN mode.

### **Erasing programmed codes**

Codes can be erased in three ways: by buttons, sources, and by all memory contents.

### **Erasing the code by buttons**



To return the normal mode, press SET.

# **Erasing the code by SOURCE**

- Press and hold down SET and **SOURCE SEL** until the LEARN D.WODE) indicator blinks. Press and hold down **D.MODE** and press the learned input source select buttons to be erased twice. LEARN indicator lights. 3 Press ENTER to continue erasing. • The SEND indicator blinks twice and the mode returns to LEARN mode.
  - To cancel the erasing operation, do not press **ENTER**, and simply press any other button.

To return the normal mode, press SET.



SET

(11)

BD

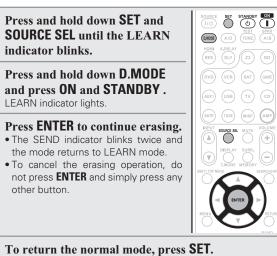
GANE

CD

(TV)

# Operating learn mode

### **Erasing the all sources**



Λ	
<b>64</b>	

Z

3

### NOTE

Erasing codes will return to the factory preset code, or there will leave empty if the button has no factory preset code.

# Setting the back light

Press the Light button on the side of the remote control, and the buttons on the remote control light for 2 seconds. If the Light button is pressed while the buttons are lit, the buttons remain lit for another 2 seconds.

• Backlight is set on in the factory settings.

### Disabling the backlight

Press and hold both **SET** and **STANDBY** until the SEND indicator flashes twice.



Press and hold both **SET** and **ON** until the SEND indicator flashes twice.



SEND





# Information

Here, we list various information related to this unit. Please refer to this information as needed.

- Part names and functions Page 61
- Other information 🖙 page 65
- Troubleshooting page 72
- Specifications page 74
- Index 🖙 page 75

Advanced version

Information

#### DD SL dts + Neo:6 STEREO TUNED AUTO S.BACK Analog (dts +HD Neo:6(STEREO TUNED AUTO) HDMI MASTER IITrueHD IIDIGITAL + IIPLIX) AUTO HDMI DIGITAL (SP A B)

8 Audyssev<sup>®</sup> indicators

### Decoder indicators

DIG. ANA.

Display

These light when the respective decoders are operating.

12

#### **2** Input signal indicators

**3** Information display

The input source name, surround mode, setting values and other information are displayed here.

#### 4 Front speaker indicator

This lights when audio signals are being output from the speakers.

### **5** Master volume indicator

When performing setting operations, displays the menu number.

### **6** Sleep timer indicator

This lights when the sleep mode is selected (12 page 36).

#### **MUTE** indicator

This lights when the mute mode is selected (CP page 21).

# Lighting is as follows, depending on the setting

of "Dynamic EQ" (r page 47) and "Dynamic Volume" (B page 47).

6

AUDYSSEY	When "Dynamic EQ" and
MULTEQ DYN VOL	"Dynamic Volume" are "ON".

**NUDYSSEY** When "Dynamic EQ" is "ON" and MULTEQ "Dynamic Volume" is "OFF".

DYN EQ AUDYSSEY When "Dynamic EQ" and "Dynamic Volume" are "OFF".

### 9 Surround back indicator

This lights when audio signals are being output from the surround back speakers (127 page 50).

### Input mode indicators

Set the audio input modes for the different input sources (P page 43).

### **D** HDMI indicator

This lights when playing using HDMI connections.

**12** Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER".

STEREO: In the FM mode, this light when receiving analog stereo broadcasts.

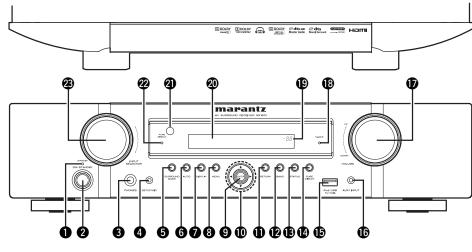
**TUNED:** Lights when the broadcast is properly tuned in.

AUTO: This light when in the auto tuning mode.

# **Part names and functions**

# **Front panel**

For buttons not explained here, see the page indicated in parentheses ().



### Power indicator (11)

# **2** Power operation button

Turns power to this unit on and off (standby).

### **3** Headphones jack (PHONES)

When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors.

### NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

<b>4 SETUP MIC jack</b>
<b>SURROUND MODE button</b> (26)
<b>6</b> AUTO buton (26)
<b>DISPLAY button</b> (53)
<b>8 MENU button</b> (40)
<b>9 ENTER button</b> (38 – 40)
<b>(D</b> Cursor buttons ( $\triangle \nabla \triangleleft \triangleright$ )(38 – 40)
<b>() RETURN button</b> (38 – 40)

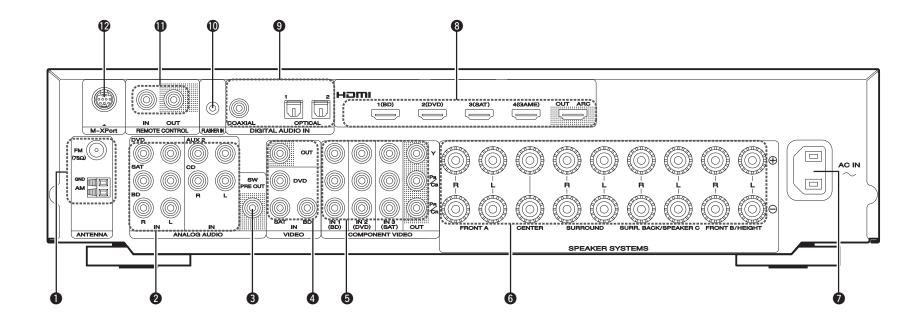
### (18) IPod/USB port **C**AUX1 INPUT connector ......(17) **VOLUME control knob** (21) (48) M-DAX indicator Master volume indicator 28) PURE DIRECT indicator (28)

BAND button (24)

# (21)

# **Rear panel**

See the page indicated in parentheses ().



<b>•</b> FM/AM antenna terminals (20)
2 Analog audio connectors (16, 17, 19)
<b>3</b> SW PRE OUT connector (5, 31, 32)
<b>4 VIDEO connectors</b>
<b>G</b> COMPONENT VIDEO connectors (16, 17)
<b>6</b> Speaker terminals
<b>O</b> AC inlet (AC IN)

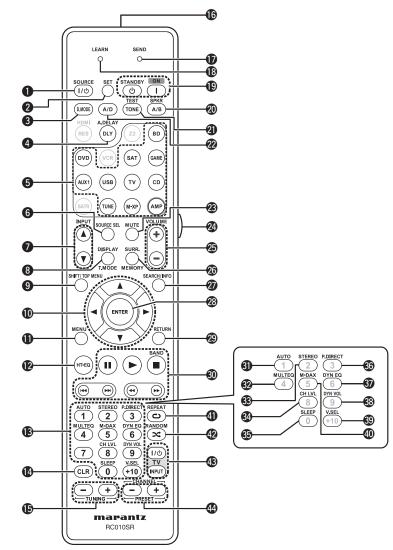
8 HDMI connectors (15)	
Digital audio connectors     (16, 17, 19)	C
FLASHER IN jack	E
Used when using a control BOX or other such control devices to control this unit.	
<b>I REMOTE CONTROL connectors</b> (34)	
<b>W-XPort connector</b> (20)	

### NOTE

Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

# **Remote control unit**

For buttons not explained here, see the page indicated in parentheses ( ).



<b>OURCE power button</b> (55)	🕲 ENTER button
<b>2</b> SET button	RETURN buttor
<b>3</b> Decode mode button (D.MODE) (44, 58, 59)	System buttons
<b>4</b> Audio delay button (DLY)	• Pause button (I
<b>5</b> Input source select buttons (21, 55, 56, 58)	<ul> <li>Play button (►)</li> <li>Stop button (■)</li> </ul>
6 Source select button	<ul> <li>Stop button (I</li> </ul>
(SOURCE SEL) (21, 58, 59)	<ul> <li>Search button</li> </ul>
<b>7 INPUT buttons</b>	FM/AM band sv
DISPLAY/Tuner mode	(BAND)
(T.MODE) button	🕄 AUTO button …
<b>9</b> SHIFT/TOP MENU button (24, 39)	OMULTEQ <sup>®</sup> butt
<b>Oursor buttons (</b> $\Delta \nabla \triangleleft \triangleright$ <b>)</b>	STEREO button
<b>(MENU button</b>	🚱 Channel level b
<b>(HT-EQ button</b>	SLEEP button
<b>(24, 57)</b> Number buttons	OPUTE direct butter
Clear button (CLR) (57)	🕢 Dynamic EQ® b
<b>(DTUNING buttons (+, -)</b>	Oynamic Volum
Remote control signal transmitter	🕄 Video select bu
SEND indicator	M-DAX button
BLEARN indicator	BEPEAT button
Power buttons (ON, STANDBY)(6, 11)	RANDOM butto
Speaker A/B button (SPKR A/B)     (51)	TV operation b
TEST TONE button (51)	(TV POWER / IN
Input mode button (A/D)	CHANNEL/PRE
<b>Wuting button (MUTE)</b> (11, 21)	
<b>2</b> Light button	NOTE
Master volume control buttons	The HDMI/RES, Z2,
(VOLUME +, -)	be used.
Surround mode (SURR.)/MEMORY button	

24 – 28)
SEARCH/Information (INFO) button

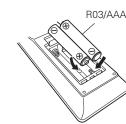
<b>ITER button</b> (38 – 40)	
<b>TURN button</b>	
estem buttons	
//AM band switching button	
<b>AND</b> )(24, 25)	
<b>JTO button</b>	
<b>ULTEQ<sup>®</sup> button</b>	
<b>EREO button</b>	
annel level button (CH LVL) (36)	
<b>EEP button</b>	
re direct button (P.DIRECT)	
mamic EQ <sup>®</sup> button (DYN EQ)	
vnamic Volume <sup>®</sup> button (DYN VOL) ····· (47)	
deo select button (V.SEL)	
-DAX button	
<b>PEAT button</b>	
<b>NDOM button</b>	
/ operation buttons V POWER / INPUT)(57)	
ANNEL/PRESET buttons (+, -)	

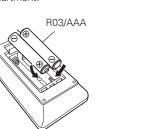
Basic version

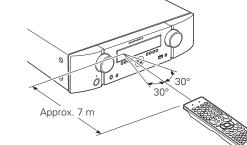
Advanced version

# **Inserting the batteries**

- 1) Remove the rear lid in the direction of the arrow and remove it.
- 2 Load the two batteries properly as indicated by the marks in the battery compartment.







**Operating range of the remote control unit** Point the remote control unit at the remote sensor when operating it.

#### ③ Put the rear cover back on.

### NOTE

- Insert the specified batteries in the remote control unit.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the  $\oplus$  and  $\Theta$  marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

### NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

# **Other information**

- □ Trademark information (☞ page 65)
- 🖵 Surround (🖙 page 66)
- □ Explanation of terms (☞ page 70)

# Trademark information

This product uses the following technologies:

		нәті	HDMI, the HDMI Logo and High- Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
PRO LOGIC IIZ	Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.	MUDYSSEY MULTEQ DYNAMIC VOLUME	Manufactured under license from Audyssey Laboratories™. U.S. and foreign patents pending. Audyssey MultEQ <sup>®</sup> is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ <sup>®</sup> is a registered trademark of Audyssey Laboratories. Audyssey Dynamic Volume <sup>®</sup> is a trademark of Audyssey Laboratories.
<b>Master Audio</b>	Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.	Made for	"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other
	Manufactured under license from DTS Licensing Limited. DTS and the Symbol are registered trademarks, & DTS Neural Surround and the DTS logos are trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.		<ul> <li>countries.</li> <li>Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted</li> </ul>
			contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.

# Surround

This unit is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

# Surround modes and surround parameters

This table shows the speakers that can be used in each surround mode and the surround parameters adjustable in each surround mode.

### Symbols in the table

 $\bigcirc$  This indicates the audio output channels or surround parameters that can be set.

Inis indicates the audio output channels. The output channels depend on the settings of "Speaker Config." (C page 49).

			Channe	Surround Parameter (😰 page 45)						
Surround mode (🆅 page 26)	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Subwoofer	HT-EQ. * 3 (1237 page 45)	DRC * 4 (1297 page 45)	D. Comp * 5 (© page 45)	LFE ★ 6 (1297 page 45)
DIRECT (2channel)	0					⊚*2		0	0	
DIRECT (Multi-channel)	0	O	0	©*1	©*1	0		0	0	0
STEREO	0					O		0	0	0
MULTI CH IN	0	O	O	0	O	O	0			0
DOLBY PRO LOGIC IIz	0	O	O		O	O	0	0	0	
DOLBY PRO LOGIC IIx	0	O	O	0		O	0	0	0	
DOLBY PRO LOGIC II	0	O	O			O	0	0	0	
DTS NEO:6	0	O	O	0		O	0	0	0	
DOLBY DIGITAL	0	O	O	0	O	O	0		0	0
DOLBY DIGITAL Plus	0	0	$\bigcirc$	0	0	0	0		0	0
DOLBY TrueHD	0	O	O	0	0	O	0	0		0
DTS SURROUND	0	0	0	0	0	0	0		0	0
DTS 96/24	0	O	O	0	O	O	0		0	0
DTS-HD	0	O	0	0	0	O	0		0	0
DTS Express	0	O	O	0	O	O	0		0	0
MULTI CH STEREO	0	0	0	0	0	O			0	0
DOLBY VIRTUAL SPEAKR	0					©*2			0	0
Neural	0	0	0		0	0	0	0	0	
Dolby Headphone	0							0	0	0

\*1 A signal for each channel contained in an input signal is output as audio.

\*2 Only when "Subwoofer Mode" is set to "LFE+Main" (12 page 50), sound is output from the subwoofer.

\*3 For HD Audio whose sampling frequency of an input signal is more than 96kHz, this sound parameter cannot be set.

\*4 This item can be selected when a Dolby TrueHD signal is played.

\*5 This item can be selected when a Dolby Digital or DTS signal is played.

\*6 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.

# ENGLISH

		Surroun	id Parameter (🖙	page 45)			⊃page 46)			
Surround mode (🆅 page 26)	Height Gain (🏹 page 46)	Panorama (🏹 page 45)	Dimension (🎓 page 45)	Center Width (🏹 page 45)	Center Image (🏹 page 45)	Tone * 7 (🖅 page 46)	MultEQ® (M page 46)	Dynamic EQ <sup>®</sup> * 8 (ICP page 47)	Dynamic Volume <sup>®</sup> * 9 (127 page 47)	M-DAX * 10 (1297 page 48)
DIRECT (2 channel)										
DIRECT (Multi-channel)										
STEREO						0	0	0	0	0
MULTI CH IN						0	0	0	0	
DOLBY PRO LOGIC IIz	0					0	0	0	0	0
DOLBY PRO LOGIC IIx		0	0	0		0	0	0	0	0
DOLBY PRO LOGIC II		0	0	0		0	0	0	0	0
DTS NEO:6					0	0	0	0	0	0
DOLBY DIGITAL						0	0	0	0	
DOLBY DIGITAL Plus						0	0	0	0	
DOLBY TrueHD						0	0	0	0	
DTS SURROUND						0	0	0	0	
DTS 96/24						0	0	0	0	
DTS-HD						0	0	0	0	
DTS Express						0	0	0	0	
MULTI CH STEREO						0	0	0	0	0
DOLBY VIRTUAL SPEAKER						0	0	0	0	0
Neural						0	0	0	0	0
Dolby Headphone						0				0

\*7 This item cannot be set when "Dynamic EQ" (127) page 47) is set to "ON".
\*8 This item cannot be set when "MultEQ" (127) page 46) is set to "OFF" or "Manual".
\*9 This item cannot be set when "Dynamic EQ" (127) page 47) is set to "OFF".
\*10 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
\*11 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.

**Types of input signals, and corresponding surround modes** This table shows the input signal that can be played in each surround mode. Check the audio signal of the input source then select the surround mode.

### Symbols in the table

 $\bigcirc$  This indicates the selectable surround mode.

								I	nput signal typ	es and forma	ts						
			P	CM	DTS	G-HD			DTS			DC	ILBY		DOLBY	DIGITAL	
Surround mode (🎓 page 26)	NOTE	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (2ch)
DTS SURROUND																	
DTS-HD MSTR					$\bigcirc$												
DTS-HD HI RES						0											
DTS ES DSCRT6.1	*1							0									
DTS ES MTRX6.1	*1								0								
DTS SURROUND								0	0	0							
DTS 96/24											0						
DTS (-HD) + PLIIx MOVIE	*2				0	0	0	0	0	0	0						
DTS (-HD) + PLIIx MUSIC	*1				0	0	0	0	0	0	0						
DTS (–HD) + PLIIz	*3				0	0	0	0	0	0	0						
DTS EXPRESS							0										
DTS (-HD) + NEO:6	*1				0	0	0		0	0	0						
DTS NEO:6 CINEMA		0		0													0
DTS NEO:6 MUSIC		0		0													0
DOLBY SURROUND																	
DOLBY TrueHD												0					
DOLBY DIGITAL+													0				
DOLBY DIGITAL EX	*1													0	0	0	
DOLBY (D+) (HD) +EX	*1											0	0				
DOLBY DIGITAL														0	0	0	
DOLBY (D) (D+) (HD) +PLIIx MOVIE	*2											0	0	0	0	0	
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1											0	0	0	0	0	
DOLBY (D) (D+) (HD) +PLIIz	* 4											0	0	0	0	0	
DOLBY PRO LOGIC IIx MOVIE	*1	0		0													0
DOLBY PRO LOGIC IIx MUSIC	*1	0		0													0
DOLBY PRO LOGIC IIx GAME	*1	0		0													0
DOLBY PRO LOGIC IIz	*3	0		0													0
DOLBY PRO LOGIC II MOVIE		0		0													0
DOLBY PRO LOGIC II MUSIC		0		0													0
DOLBY PRO LOGIC II GAME		0		0													0

\*1 If "Speaker Config." - "S.Back" (@ page 50) is set to "None", this surround mode cannot be selected.
\*2 If "Speaker Config." - "S.Back" (@ page 50) is set to "1sp" or "None", this surround mode cannot be selected.
\*3 If "Speaker Config." - "Front Height" (@ page 50) is set to "None", this surround mode cannot be selected.

# ENGLISH

								1.									
			Input signal types and formats														
			P	CM	DTS	S-HD			DTS			DO	LBY	DOLBY DIGITAL			
Surround mode (🎓 page 26)	NOTE	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (2ch)
MULTI CH IN																	
MULTI CH IN	1		0														
MULTI CH IN + PLIIx MOVIE	*2		0														
MULTI CH IN + PLIIx MUSIC	*1		0														
MULTI CH IN + PLIIz	*3		0														
MULTI CH IN + Dolby EX	*1		0														
MULTI CH IN 7.1			0														
DIRECT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MULTI CH STEREO	1	0	0	0				0	0	0	0			0	0	0	0
DOLBY VIRTUAL SPEAKER		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEURAL		0		0													
DOLBY HEADPHONE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*1 If "Speaker Config." – "S.Back" (@ page 50) is set to "None", this surround mode cannot be selected.
\*2 If "Speaker Config." – "S.Back" (@ page 50) is set to "1sp" or "None", this surround mode cannot be selected.
\*3 If "Speaker Config." – "Front Height" (@ page 50) is set to "None", this surround mode cannot be selected.

### Surround

Simple version

# **Explanation of terms**

Α

#### A2DP

A2DP is one profile of Bluetooth definded for in-car devices or AV devices that use wireless communication instead of a cable.

#### Adobe RGB color / Adobe YCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

#### Audyssey Dynamic EQ®

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ<sup>®</sup> to provide well-balanced sound for every listener at any volume level.

#### Audyssey Dynamic Volume<sup>®</sup>

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

#### Audyssey MultEQ®

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

#### Auto Lip Sync

В

If you connect the receiver to a TV that supports the Auto Lip Sync function, it can automatically correct delay between the audio and video.

#### Bluetooth

Bluetooth is a short-distance wireless communication technology used for connecting handheld devices several meters apart. This enables notebook computers, PDA s, mobile phones, etc. to connect without a cable for transmitting audio and data.

#### D Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak.

#### **Dolby Digital**

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1 channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels

("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "threedimensional" feeling (sense of distance, movement and positioning) is achieved.

A realistic, powerful sense of presence is achieved when playing movie sources in AV rooms as well.

#### Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

#### **Dolby Digital Plus**

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1 channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

#### Dolby Headphone

The Dolby Headphone technology provides a surround sound listening experience over headphones. When listening to multichannel content such as DVD movies over headphones, the listening experience is fundamentally different than listening to speakers. Since the headphone speaker drivers are covering the pinna of the ear, the listening experience differs greatly from traditional speaker playback. Dolby utilizes patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. Dolby Headphone also delivers exceptional 3D audio from stereo material.

#### **Dolby TrueHD**

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. Dolby TrueHD is adopted for applications that put very high importance on sound quality.

#### Dolby Pro Logic ${\rm I\hspace{-0.5mm}I}$

Dolby Pro Logic  ${\rm I\!I}$  is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5 channels to achieve an excellent surround effect. The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

#### Dolby Pro Logic IIx

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology. Audio signals recorded in 2 channels are decoded to achieve a natural sound with up to 7.1 channels. There are three modes: "Music" suited for playing music, "Movie" suited for playing movies, and "Game" which is optimized for playing games.

#### Dolby Pro Logic IIz

Dolby Pro Logic IIz introduces a new dimension to Home Entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1-channel and 7.1-channel content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concert video and video game playback while maintaining the full integrity of the source mix.

Dolby Pro Logic IIz identifies and decodes spatial cues that occur naturally in all content, directing this information to the front height channels, complementing the performance of left and right surround sound speakers. Content that is encoded with Dolby Pro Logic IIz height channel information can be even more revealing, with perceptually discrete height channel information bringing an exciting new dimension to home entertainment. Dolby Pro Logic IIz, with front height channel is also an ideal alternative for households that cannot support the placement of back surround speakers of a typical 7.1-channel system but may have bookshelf space available to support the addition of height speakers.

#### **Dolby Virtual Speaker**

Dolby Virtual Speaker is a technology certified by Dolby Laboratories that creates a virtualized surround sound experience from two speakers using a multichannel Dolby Digital source. Additionally, Dolby Virtual Speaker can simulate the surround sound effect produced by Dolby Pro Logic or Dolby Pro Logic II.

Dolby Virtual Speaker retains all the original Multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

#### Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

#### DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

#### DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1 channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

#### **DTS Digital Surround**

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1 channels of digital discrete surround sound.

#### DTS-ES<sup>™</sup> Discrete 6.1

DTS-ES<sup>™</sup> Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

#### DTS-ES<sup>™</sup> Matrix 6.1

DTS-ES<sup>™</sup> Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

#### DTS Express

DTS Express is an audio format supporting low bit rates (max. 5.1 channels, 24 to 256 kbps).

#### Explanation of terms

#### DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

#### DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1 channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

#### **DTS-HD Master Audio**

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution.

#### **DTS Neural Surround**

DTS Neural Surround has been chosen as the surround sound format for XM Satellite Radio's "XM HD Surround", TV sports broadcasting, 7.1 games, Music Direct Internet streaming as well as leading FM/HD radio stations. It delivers the rich envelopment and discrete image detail of surround sound by unmasking the audio details, typically lost by other playback modes. Audiences will experience the deep ambience and subtle details of movies, music and games.

#### DTS NEO:6<sup>™</sup> Surround

DTS NEO:6<sup>™</sup> is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS NEO:6 Cinema" suited for playing movies and "DTS NEO:6 Music" suited for playing music.

#### Dynamic range

The difference between the maximum undistorted sound level and the minimum discernible level above the noise emitted by the device.

#### HDCP

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

Н

#### HDMI

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.

#### LFE

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20 Hz to 120 Hz deep bass.

#### M

#### MP3 (MPEG Audio layer 3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD. MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

#### P Pairing

Pairing is an operation required for settings to connect two Bluetooth devices. Pairing enables Bluetooth devices to access each other.

#### **Protection Circuit**

This is a function to prevent damage to components within the power supply when an abnormality such as an overload, excess voltage occurs or temperature for any reason.

In this unit, the power indicator blinks and the unit enters standby mode when an abnormality occurs.

#### Sampling frequency

S

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

#### Speaker impedance

This is an AC resistance value, indicated in  $\Omega$  (ohms). Greater power can be obtained with this value smaller.

#### sYCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

#### W WAV (Wave)

WAV is a standard audio format of Windows. The file size tends to increase, but sound near the original sound can be maintained.

#### WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media<sup>®</sup> Player Ver.7, 7.1, Windows Media<sup>®</sup> Player for Windows<sup>®</sup> XP and Windows Media<sup>®</sup> Player 9 Series.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

#### x.v.Color

X

This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors. "x.v.Color" is a Sony registered trademark.

Simple version

**Basic version** 

# Troubleshooting

#### If a problem should arise, first check the following:

#### 1. Are the connections correct?

2. Is the set being operated as described in the user guide?

#### 3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

#### [General]

Symptom	Cause/Solution	Page
Power does not turn on.	Check whether the power plug is correctly inserted into the power outlet.	5
011.	<ul> <li>The protection circuit is active. Disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet.</li> </ul>	4, 71
Display is off.	• Set "Display" on the menu to something other than "OFF".	53
The power indicator is blinking red in intervals of	<ul> <li>The temperature inside the unit has risen. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently.</li> </ul>	_
approximately 2 seconds.	• Please re-install this unit in a place having good ventilation.	-
The power indicator is blinking red in intervals of approximately 0.5 seconds.	<ul> <li>Please use speakers which have the specified impedance.</li> <li>The speaker cable has shorted (is touching). Firmly twist the core wire in the speaker cable, and then re-connect it to the speaker terminal.</li> </ul>	4 4
After turning on the power, the power indicator is blinking red in intervals of approximately 0.5 seconds.	• This unit amplifier circuit has failed. Turn off the power and please contact the Marantz service adviser.	_
Set does not operate properly.	Reset the microprocessor.	74

Audio]		
Symptom	Cause/Solution	Page
Audio is not output.	<ul><li>Check the connections for all devices.</li><li>Check the speaker connections.</li></ul>	5, 14 – 20 5, 31, 32
	<ul> <li>Check whether the audio device power is turned on.</li> <li>Adjust the master volume.</li> </ul>	21
	• Cancel the mute mode.	21
	• Select a suitable input source.	21
	• Select a suitable input mode.	43
	• Disconnect the headphones. No sound is output from the speakers or the PRE OUT connectors when headphones are connected.	60
No sound is produced from surround speaker.	• Check if the surround speakers are connected to the SURROUND terminals.	_
No sound is produced from	<ul> <li>Set "Amp Assign" on the menu to "Normal".</li> <li>Set "Speaker Config." – "S.Back" on the menu to something</li> </ul>	49 50
, surround back	other than "None".	
speaker.	• Set the surround mode to something other than "STEREO".	26
No sound is	• Set "Amp Assign" on the menu to "Normal".	49
produced from front height speaker.	• Set "Speaker Config." – "Surround" on the menu to something other than "None".	50
No sound is	Check the subwoofer connections.	5, 31, 32
produced from	• Turn on the subwoofer's power.	6
subwoofer.	• Set "Speaker Config." – "Subwoofer" on the menu to "Yes".	49
	• If "Front" and "Center" for "Speaker Config." are set to "Large",	49, 50
	and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode.	
DTS sound is not output.	• Set "Decode Mode" on the menu to "Auto" or "DTS".	44
Dolby TrueHD, DTS-	Make HDMI connections.	14

HD, Dolby Digital Plus audio is not output.

#### [Video]

Symptom	Cause/Solution	Page
No picture appears.	<ul><li>Check the TV connection.</li><li>Set the TV input correctly.</li></ul>	5 6
The on-screen display is not shown. Or noise occurs.	<ul> <li>Set the on-screen display output mode to match your TV and connection method.</li> </ul>	54

# ENGLISH

Simple version

**Basic version** 

# Information

# 73

#### (HDMI)

Cause/Solution	Page
<ul> <li>Check the connection of the HDMI connectors.</li> <li>When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "Amp".</li> </ul>	14 51
• When outputting HDMI audio from a TV, set "HDMI Audio Out" on the menu to "TV".	51
Check the connection of the HDMI connectors.     Set the input source to match the connector HDMI connector	14 14, 21
<ul> <li>Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.</li> </ul>	14
<ul> <li>Set "HDMI Control" on the menu to "OFF". To operate power only for each device, set "Power Off Control" to "OFF".</li> </ul>	35, 51
	<ul> <li>Check the connection of the HDMI connectors.</li> <li>When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "Amp".</li> <li>When outputting HDMI audio from a TV, set "HDMI Audio Out" on the menu to "TV".</li> <li>Check the connection of the HDMI connectors.</li> <li>Set the input source to match the connected HDMI connector.</li> <li>Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.</li> <li>Set "HDMI Control" on the menu to "OFF". To operate power</li> </ul>

#### [Radio]

Symptom	Cause/Solution	Page
Reception fails, or	• Change the antenna orientation or position.	20
there is a lot of noise	<ul> <li>Separate the AM loop antenna from the unit.</li> </ul>	20
or distortion.	<ul> <li>Use an FM outdoor antenna.</li> </ul>	20
	<ul> <li>Separate the antenna from other connection cables.</li> </ul>	20

#### [iPod]

Symptom	Cause/Solution	Page
iPod cannot be	Check the iPod connections.	18
played.	<ul> <li>Switch the input source to "USB".</li> </ul>	21
	<ul> <li>Incompatible iPod types cannot be played back.</li> </ul>	18
"Connection Error" is displayed.	• Unable to communicate properly. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-
"Not Support" is displayed.	• The iPod connected to the unit is not compatible. Please make sure the iPod you are connecting is compatible.	18
	• The software version of the connected iPod is an old one. Please update to the latest version.	-
"Connection Error"	• The iPod is not responding. Turn off the power to this unit,	-
is displayed.	disconnect the iPod and then reconnect it.	

#### [USB memory device] **Cause/Solution** Page Symptom When a USB • The set cannot recognize a USB memory device. Check the 18 memory device is connection. connected, "USB" is • A USB memory device not conforming to mass storage class is \_ not displayed on the connected. Connect a USB memory device conforming to mass menu. storage class. • A USB memory device cannot be connected via a USB hub. 18 Files on a USB • Set the USB memory device format to "FAT16" or "FAT32". For \_ memory device details, refer to the USB memory device's operating instructions. cannot be played. • If the USB memory device is divided into multiple partitions, only \_ files stored in the top partition can be played. • The file is recorded in an incompatible format. Please record it in a compatible format. • This unit cannot play back files covered by copyright protection. \_ 22 The file names Characters that cannot be displayed on this unit are replaced by are not displayed "." (period). properly ("...", etc.). The sound quality is • The file being played back has a low bit rate. \_ poor or there is noise during playback. "Connection Error" • Unable to communicate properly. Turn off the power to this unit, \_ is displayed. unplug the USB memory device and then plug it back in. • The USB memory device is not responding. Turn off the power to \_ this unit, unplug the USB memory device and then plug it back in. "Overcurrent" is • The USB memory device is consuming too much power. When displayed. using a USB portable hard disk that can be powered by an AC adapter, connect its AC adapter. [M-XPort]

[IVI-XPort]		
Symptom	Cause/Solution	Page
Audio is not output when a wireless receiver (RX101 is connected).	Check that the Bluetooth device and Wireless receiver (RX101) are correctly paired.	-

#### [Remote control unit]

Symptom	Cause/Solution	Page
The set cannot be	• Batteries are worn out. Replace with new batteries.	64
operated with the remote control unit.	• Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	64
	<ul> <li>Remove any obstacle between this unit and the remote control unit.</li> </ul>	64
	• Insert the batteries in the proper direction, checking the $\oplus$ and $\ominus$ marks.	64
	<ul> <li>The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.</li> </ul>	64

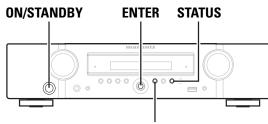
# **Resetting the microprocessor**

Perform this procedure if the display is abnormal or if operations cannot be performed. When the microprocessor is reset, all the settings are reset to their default values.

Various setting details can be saved and reset on this device. If setting details are saved before returning to the default values, after returning to the default settings, setting details can be returned to the same values as before returning to the defaults.

# 

To return all of the settings to the default values, perform steps 2 to 4 without performing step 1.



RETURN

**1** When the power is ON, press and hold STATUS and ENTER for more than 3 seconds. After "MEMORY SAVING" is shown on the display, "COMPLETE" is shown to inform you that the settings have been saved.

**7** Turn off the power using **ON/STANDBY**.

**Q** Press ON/STANDBY while simultaneously pressing ENTER and RETURN.

**4** Once the display starts flashing at intervals of about 1 second, release the two buttons.

#### **5** Press and hold STATUS and ENTER for more than 3 seconds. After "MEMORY LOAD" is shown on the display. "COMPLETE" is show

After "MEMORY LOAD" is shown on the display, "COMPLETE" is shown to inform you that the settings have returned to those saved in step 1.

# 

If in step 4 the display does not flash at intervals of about 1 second, start over from step 2.

# **Specifications**

#### Audio section

 Power amplifier Rated output:

Front

130 mV/50 kΩ

1 Vp-p, 75 Ω

5 Hz - 10 MHz - +1, -3 dB

Y (brightness) signal — 1 Vp-p, 75  $\Omega$ PB / CB signal — 0.7 Vp-p, 75  $\Omega$ 

Pr / Cr signal — 0.7 Vp-p, 75 Ω

5 Hz - 60 MHz - +0, -3 dB

87.5 MHz - 107.9 MHz

MONO 2.8 µV (20.2 dBf)

1.2 µV (12.8 dBf)

MONO 70 dB STEREO 67 dB

MONO 0.7 %

STEREO 1.0 %

AC 120 V. 60 Hz

3 W (CEC standby)

250 W 0.2 W (Standby)

9.0 kg

 $\begin{array}{l} 75 \ W + 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{Center:} \\ 50 \ W \ (8 \ \Omega, \ 20 \ \text{Hz} - 20 \ \text{kHz} \ \text{with} \ 0.08 \ \% \ \text{T.H.D.}) \\ 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{Surround:} \\ 50 \ W \ + \ 50 \ W \ (8 \ \Omega, \ 20 \ \text{Hz} - 20 \ \text{kHz} \ \text{with} \ 0.08 \ \% \ \text{T.H.D.}) \\ 75 \ W \ + \ 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{Surround Back:} \\ 50 \ W \ + \ 50 \ W \ (8 \ \Omega, \ 20 \ \text{Hz} - 20 \ \text{kHz} \ \text{with} \ 0.08 \ \% \ \text{T.H.D.}) \\ \hline \text{75 W} \ + \ 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{75 W} \ + \ 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{75 W} \ + \ 75 \ W \ (6 \ \Omega, \ 1 \ \text{kHz} \ \text{with} \ 10 \ \% \ \text{T.H.D.}) \\ \hline \text{6} \ - \ 8 \ \Omega \end{array}$ 

10 Hz - 100 kHz - ±3 dB (Source Direct mode)

98 dB (IHF-A weighted, Source Direct mode)

[FM]

(Note:  $\mu$ V at 75  $\Omega$ , 0 dBf = 1 x 10<sup>-15</sup> W)

[**MA**]

520 kHz – 1710 kHz

18 µV

50 W + 50 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)

## Analog

Output connectors:

Input sensitivity/Input impedance: Frequency response: S/N:

#### Video section

- Standard video connectors Input/output level and impedance: Frequency response:
- Color component video connector Input/output level and impedance:

Frequency response:

#### Tuner section

Receiving Range: Usable Sensitivity: 50 dB Quieting Sensitivity:

S/N (IHF-A): Total harmonic Distortion (at 1 kHz):

Total narmonic Distortion (at T KHZ):

#### 🗆 General

Power supply: Power consumption:

#### Maximum external dimensions: Weight:

Remote control unit (RC010SR)

#### Batteries:

R03/AAA Type (two batteries)

440 (W) x 105 (H) x 367 (D) mm

For purposes of improvement, specifications and design are subject to change without notice.

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# ENGLISH

Simple version

**Basic version** 

Advanced version

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# **Device select : BD**

Blu-ray Disc Player			
D	Denon	5034, 5035, 5036	
Н	Hitachi	5031, 5032, 5033	
	Integra	5013	
J	JWC	5014, 5015, 5017, 5018, 5019, 5020	
L	LG	5010, 5011	
Μ	Marantz	5000, 5026, 5027	
	Mitsubishi	5024, 5025	
0	Onkyo	5013	
Ρ	Panasonic	5001, 5002, 5003	
	Philips	5004	
	Pioneer	5005	
R	RCA	5012	
S	Samsung	5005	
	Sharp	5028, 5029, 5030	
	Sony	5007, 5008, 5009, 5016	
Т	Toshiba	5012	
Y	Yamaha	5021, 5022, 5023	

# **Device select : DVD**

DVD Player			
Α	Aiwa	2036, 2037	
	Apex	2012, 2017, 2018, 2019, 2021, 2034	
В	BOSE	2038, 2039, 2063	
D	Denon	2047, 2048	
F	Funai	2049	
G	GE	2009, 2020, 2029, 2033	
H	Harman Kardon	2061	
	Hitachi	2008, 2012, 2031	
J	JVC	2006, 2010, 2040, 2041, 2042, 2043	
K	Kenwood	2053, 2054	
	Koss	2058	
Μ	Magnavox	2007, 2011, 2023, 2025	
	Marantz	2025, 2065	
	Marantz (Blu-ray)	2064	
	Mitsubishi	2011, 0215	
0	Onkyo	2062	
	Oritron	2009, 2030	
Ρ	Panasonic	2003, 2015, 2016, 2055	
	Philips	2007, 2011, 2058	
	Pioneer	2002, 2014, 2056	
	Proscan	2009, 2020, 2032	
R	RCA	2005, 2009, 2020, 2035, 2057	
S	Sampo	2041	

	Samsung	2008, 2012, 2022, 2024,
	Samsung	2027
	Sanyo	2050, 2052
	Sharp	2044, 2045
	Sherwood	2051
	Sony	2001, 2013, 2059
Т	Toshiba	2004, 2008, 2026, 2028
Y	Yamaha	2046, 2060
Ζ	Zenith	2010
_		

# Device select : SAT

Sá	atellite Recei	ver
Α	Alphastar	4027
	Amstrad	4046, 4047, 4050
	Atsky	4048
B	B Sky B	4021, 4045, 4046
C	Chaparral	4039
D	DIRECTV	4001, 4016, 4044
	DISH Network	4030
	Drake	4026
E j	Echostar	4007, 4017, 4018, 4019, 4020, 4062, 4063, 4064
	Eurosky	4047, 4056
	Express Vu	4017
F	Foxtel	4051
	Freesat	4056
	Fujitsu	4025
G	GE	4002, 4008, 4009
	General Instruments	4036, 4037
	Gradiente	4044, 4057
H	Hitachi	4001, 4015
	Hughes	4001, 4016
J	Humax	4049, 4050, 4051, 4052, 4053
J	Janeil	4025
	JVC	4017
M	Mitsubishi	4001
N	Nokia	4058, 4059, 4060, 4061
0	Optima	4048
P	Panasonic	4004, 4010
	Philips	4031, 4035, 4044, 4057
_	Proscan	4002, 4008, 4009, 4011
R	Radio Shack	4036, 4037
	RCA	4002, 4008, 4009, 4029
	Realistic	4040
	Rural Cable	4036
S	Samsung	4022, 4027, 4042, 4043, 4050, 4054, 4055
	Schneider	4041, 4043
	SKY	4044, 4045, 4057

4048

Skyplus

	Skysat	4041, 4047, 4056
	Sony	4003, 4012, 4014, 4065, 4066, 4067
	Star Choice	4032
	Star Trak	4024
	STS	4038
	SuperDish	4028
Т	Теас	4049
	Thomson	4046, 4056
	Toshiba	4001, 4034
U	Uniden	4005, 4006, 4013
	Universum	4056
V	Video Pall	4025
Ζ	Zenith	4023, 4025, 4033

# **Device select : TV**

#### Television A Acer 1141 Admiral 1002, 1009, 1089 Aiko 1059 Aiwa 1117, 1118 Akai 1001 Amtron 1023 Anam 1113 Anam National 1023, 1069, 1092 AOC 1003, 1024, 1049, 1127 Audiovox 1023 B Bell & Howell 1009, 1025 Benq 1104, 1142 1003, 1097, 1098, 1113 Broksonic C Celebrity 1001 1003, 1013, 1023, 1026, 1059, 1063 Citizen Colortyme 1003, 1043 Contec 1113 1023, 1045, 1047 Contec/Cony Craig 1020, 1022, 1023, 1113 Crown 1023, 1067 1003, 1013, 1025, 1026, 1062, 1103, 1110 Curtis Mathes 1003, 1013, 1024, 1035, D Daewoo 1036, 1059, 1084, 1101 Daytron 1003, 1013, 1016 Dimensia 1103, 1110 1003, 1010, 1153 Dumont E Electroband 1001 Electrohome 1001, 1003, 1069, 1133 1003, 1013, 1015, 1020, 1003, 1013, 1013, 1020, 1021, 1022, 1023, 1025, 1038, 1044, 1045, 1048, 1055, 1061, 1094, 1096, 1099, 1101, 1113 Emerson

1003

Envision

F	Fisher	1025, 1051, 1091, 1160	0
	Fujitsu	1038, 1124, 1125, 1155	-
_	Funai	1023, 1038, 1113	R
G	Gateway	1150	
	GE	1003, 1018, 1022, 1046, 1054, 1069, 1085, 1103, 1110, 1113, 1133, 1136, 1153	
	Goldstar	1003, 1013, 1024, 1030, 1045, 1080, 1100 1112, 1154	
Η	Hallmark	1003	
	Hisense	1116	S
	Hitachi	1003, 1012, 1031, 1032, 1037, 1041, 1045, 1047, 1065, 1068, 1082, 1088, 1094, 1139, 1140, 1145, 1159	Ū
Т	Infi nity	1067	
J	Janeil	1134	
	JBL	1067	
	JC Penney	1003, 1013, 1018, 1019, 1024, 1026, 1046, 1047, 1054, 1063, 1083, 1085, 1100, 1103, 1110, 1112, 1133, 1154	
	Jensen	1003	
	JVC	1028, 1029, 1045, 1047, 1050, 1060, 1065	
К	Kawasho	1001, 1003	
	Kenwood	1003	
	Kloss Novabeam	1023, 1056, 1057, 1134	
	KTV	1013, 1023, 1033, 1034, 1073, 1099, 1113	
L	LG	1024, 1030	
Μ	M.Wards	1002, 1009, 1038	Т
	Magnavox	1003, 1052, 1053, 1056, 1057, 1063, 1067, 1081, 1106	
	Marantz	1003, 1031, 1067, 1122	
	Mitsubishi	1003, 1024, 1051, 1115, 1122, 1133	
	Motorola	1014, 1069	
Ν	NEC	1003, 1012, 1024, 1043, 1069	
	NET-TV	1137, 1150	
0	Orion	1020, 1096	
Ρ	Panasonic	1017, 1067, 1069, 1095, 1111 1002, 1011, 1045, 1052	U
	Philips	1003, 1011, 1045, 1052, 1054, 1056, 1057, 1058, 1063, 1067, 1069, 1106	V
	Pioneer	1003, 1018, 1037, 1070, 1071, 1094, 1145, 1147, 1149	
	Plasmsync	1135	W
	Portland	1003, 1013, 1024, 1059	
	Price Club	1026	
	Prism	1018 1004, 1005, 1006, 1007,	Υ
	Proscan	1004, 1005, 1000, 1007, 1008, 1085, 1103, 1110	Ζ
	Proton	1003, 1045	

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	Zenith	1144, 1153	
J		1003, 1009, 1010, 1132,	
	White Westinghouse Yamaha	1001, 1101 1003, 1024	
1	Wards	1003, 1009, 1015, 1024, 1038, 1044, 1046, 1052, 1054, 1056, 1057, 1067, 1086, 1103, 1110	
	Viewsonic	1006, 1022, 1109, 1128, 1129, 1130, 1131, 1138, 1143, 1145, 1150	
1	Video Concepts	1113	
	Universal	1046, 1054	
	Totevision	1111, 1135, 1136 1013	
	Toshiba	1074 1003, 1019, 1025, 1026, 1042, 1074, 1098, 1107, 1111, 1135, 1136	
	Teknika Telecaption	1024, 1026, 1038, 1045, 1047, 1059, 1063, 1111, 1113 1074	
Ì	Techwood	1003, 1018 1003, 1009, 1013, 1023, 1024, 1026, 1038, 1045, 1047, 1059, 1063, 1111, 1112	
J	Technics	1018	
	Tatung	1069	
1	Tandy	1014	
1	Symphonic	1023, 1039, 1044	
	Sylvania	1003, 1039, 1042, 1052, 1053, 1056, 1057, 1063, 1067, 1089, 1151	
j	Supre-Macy	1134	
Ì	Starlite	1023	
ľ	Soundesign	1003, 1023, 1038, 1063, 1113	
J	Sony	1001, 1102, 1108	
	Sharp Signature	1045, 1055, 1064, 1066, 1076, 1089, 1123 1009	
1	Sanyo	1003, 1025, 1051, 1072, 1077, 1091, 1156, 1157, 1158 1003, 1013, 1014, 1015,	
	Sansui	1119	
	Samsung	1003, 1013, 1024, 1026, 1040, 1045, 1062, 1078, 1083, 1090, 1100, 1105, 1114, 1120, 1121, 1146, 1148, 1157	
	Sampo	1150	
ľ	Runco	1045, 1100, 1103, 1110 1010, 1153	
Ì	Realistic	1094, 1101, 1103, 1110, 1113, 1153 1013, 1015, 1023, 1025, 1045, 1100, 1103, 1110	
	RCA	1003, 1004, 1005, 1006, 1007, 1008, 1014, 1024, 1049, 1069, 1075, 1079, 1085, 1087, 1088, 1093, 1094, 1101, 1103, 1110, 1113, 1153	
	Radio Shack	1003, 1013, 1015, 1023, 1024, 1025, 1045, 1100, 1103, 1110, 1113	
	Quasar	1010, 1069, 1073, 1111, 1153	

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C	D Player	
Α	AIWA	3001, 3002, 3003
	AKAI	3004, 3005, 3006
	AUDIO	3007
	AUDIO LABS	3008
C	CALIFORNIA	3008
	CARVER	3010, 3011, 3009
	CASIO	3012, 3020
	CURTIS	3020, 3012
D	DENON	3013
E	EMERSON	3014
F	FISHER	3011, 3015, 3016, 3017, 3018
G	GE	3019
	GENEXXA	3014, 3021, 3020
Η	HARMON	3022, 3023, 3051
	HITACHI	3020
	INKEL	3024
J	JC PENNEY	3012, 3020, 3025
	JVC	3026, 3027
K	KARDON	3022, 3051, 3023
	KRELL	3010
L	LUXMAN	3035, 3036, 3037, 3038
	LX I	3012, 3020, 3014
Μ	MAGNAVOX	3010, 3039, 3040
	MARANTZ	3010, 3041, 3042, 3043
	MATHES	3012, 3020
	MCS	3012, 3020
	MGA	3023
	MISSION	3010
NI.	MITSUBISHI	3023, 3044
IN	NAD NAKAMICHI	3034, 3045
	NEC MCS	3046, 3047, 3048 3025
	NIKKO	3007, 3016
~		
0	ONKYO	3049, 3050, 3051, 3052, 3055, 3102, 3103
	OPTIMUS	3011, 3014, 3020, 3028, 3053, 3054, 3056, 3057,
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Ρ	PANASONIC	3008, 3060, 3061
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	SCOTT	3014
	SEARS	3012, 3014, 3020, 3028, 3042
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V	VICTOR	3026
Y	YAMAHA	3007, 3089, 3090, 3091, 3092
Ζ	ZENITH	3016, 3093, 3094, 3095, 3096

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06/2010 541110480028M

# MARANTZ CANADA LIMITED WARRANTY

Marantz Canada ("Marantz") warrants the following Marantz products for the periods indicated:

# 3-year warranty for both Parts & Labour, from the original purchase date :

Amplifiers; Pre Amplifiers; Pre Amplifier-Processor-Tuners; Integrated Amplifiers; Tuners; Receivers; Blu-ray DVD Super Audio CD/CD Players/Changers; Learning Remote Control Devices; iPod Docks & DLP front Projectors.

# 90 day warranty for parts and labour from the original purchase date :

DLP lamps

# What is Covered and What is Not Covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
  - a) Accident; acts of nature; misuse; abuse; neglect; unauthorized product modification.
  - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
  - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
  - d) Any shipment of the product (claims must be presented to the carrier)
  - e) Any cause other than a product defect
- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- 3. Any product on which the serial number has been defaced, modified or removed.
- 4. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
- 5. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

## Who May Enforce the Warranty

Only the original purchaser may enforce this warranty.

## What We Will Pay For

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

## **How You Can Get Service**

- 1. If your unit needs service, please first contact your dealer to see what support services they do offer. You can also contact one of our Authorized Marantz Service Centers as per our website <u>http://ca.marantz.com/162.asp</u> or contact us directly as below. Please do not return your unit to the factory without prior authorization.
- 2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within Canada.
- 3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

#### **Limitation of Implied warranties**

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

#### **Exclusion of damages**

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

Some provinces do not allow limitations on how long an implied warranty lasts and/or does not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, but you may also have other rights, which vary from province to province.

# **MARANTZ** Canada

Division of D&M Canada Inc. 5-505 Apple Creek Blvd., Markham, Ontario L3R 5B1 1-888-258-9361 www.marantz.com

# **Marantie Limitée de Marantz Canada**

Marantz Canada ("Marantz") garantie les produits suivants pour les périodes indiquées :

#### 3 ans de garantie pour les pièces et la main d'œuvre prenant effet à partir de la date d'achat du produit :

Amplificateurs, Préamplificateurs, Pré-ampli-processeurssyntoniseurs; amplificateurs intégrés, syntoniseurs, récepteurs, Blu-ray DVD Super Audio CD/Lecteur CD/Changeur, télécommandes programmables, Docks iPod et projecteurs avant DLP.

# 90 jours de garantie pour les pièces et la main d'œuvre prenant effet à partir de la date d'achat du produit :

Lampes DLP

## Ce qui est couvert et pas couvert par la garantie :

A l'exception de ce qui est mentionné ci-dessous, cette garantie couvre les pièces et la main d'œuvre afin de réparer tous les défauts de matériel ou de fabrication du produit. Ce qui suit <u>n'est pas couvert par la garantie</u> :

- 1. Les dommages, détérioration, défauts de fonctionnement, ou le fait de ne pas respecter les spécifications d'exécutions résultant d'un (e) :
  - accident, acte de la nature, abus, négligence, utilisation impropre ou d'une modification de produit non autorisée;
  - b) installation incorrecte, déplacement, maintenance ou d'un emploi contraire aux instructions fournies avec le produit ;
  - c) réparations ou tentatives de réparations par une personne non reconnue par Marantz ;
  - d) envoi de produit (les réclamations doivent être présentées au transporteur)
  - e) cause autre qu'un défaut de produit.
- 2. L'entretien, l'installation initiale, toute vérification de produit ou aucun défaut n'a été trouvé, ou tous frais encourus pour l'installation, le déplacement ou la réinstallation du produit.
- 3. Tout produit dont le numéro de série a été effacé, modifié ou enlevé.
- 4. Les accessoires incluant mais non limités aux, piles, câbles, matériaux de support, accessoires de nettoyage, antennes et cordons de secteur détachables.
- 5. La garantie n'est pas valable si l'achat a été fait au Canada chez un revendeur non reconnu par Marantz.

# Qui peut faire appliquer la garantie

Seule la personne qui a acheté le produit à l'origine peut faire appliquer la garantie.

## Notre paiement

Nous paierons tous les frais de pièces et de main d'œuvre pour tous les produits couverts par la garantie. Le paiement des frais de livraison est abordé dans la section suivante de cette garantie.

#### **Comment obtenir du service**

- 1. Si votre produit Marantz requiert du service, communiquez premièrement avec votre revendeur autorisé afin de connaître s'il peut procéder au service de votre appareil. Vous pouvez aussi consulter la liste des centres de service autorisés sur notre site web au <u>http://ca.marantz.com/162.asp</u> ou contactez nous directement aux coordonnées ci-dessous. Veuillez ne pas retourner votre appareil chez le manufacturier sans autorisation obtenue préalablement.
- 2. Vous devez payer les frais de livraison dans le cas où votre appareil a besoin d'être envoyé au service des réparations. Toutefois, si les réparations nécessaires sont couvertes par la garantie, nous payerons les frais de retour d'expédition et ce quelle que soit la destination au Canada.
- 3. Lorsque vous envoyez votre appareil pour un service sous garantie, vous devez joindre une copie de la facture d'achat (ticket ou autre preuve d'achat)

## Limites des garanties implicites

Toutes les garanties implicites, y compris les garanties de valeur marchande et spécifique pour un achat particulier, sont limitées dans la durée à la longueur de cette garantie.

#### Exclusion des dommages

La responsabilité de Marantz est limitée pour n'importe quel produit défectueux en ce qui concerne la réparation ou le remplacement du produit en question. Si des dommages interviennent à des produits autres que ceux de Marantz, Marantz ne sera pas tenu responsable des dits dommages, basés sur le dérangement ou la perte d'utilisation du produit ou tout autre dommage qu'il soit fortuit, indirect ou autre.

Certaines provinces ne permettent pas de limites quant à la durée d'une garantie sous-entendue et/ou ne permettent pas l'exclusion de dommages fortuits ; ainsi les limitations et les exclusions mentionnées ci-dessus peuvent ne pas s'appliquer à votre cas.

Cette garantie vous donne des droits légaux spécifiques, mais vous pouvez aussi avoir d'autres droits qui peuvent varier d'une province à l'autre.

Cette garantie n'est seulement valable qu'au Canada.

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PRINTED IN CHINA

# **marantz**<sup>®</sup> Limited Warranty

#### Marantz America, Inc. ("Marantz") warrants the following Marantz Products for the periods indicated:

1. The following Marantz Audio/Video components, have a 3 year warranty for both Parts & Labor, from the original purchase date:

Amplifiers, Pre Amplifiers, Pre Amplifier-Processor-Tuners, Integrated Amplifiers, Tuners, Receivers, Blu-ray DVD SA-CD/CD Players/Changers, Learning Remote Control Devices, iPod Docks & DLP front Projectors.

2. **DLP lamps** have a 90 day warranty for parts and labor from the original purchase date.

#### What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
  - a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
  - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
  - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
  - d) Any shipment of the product (claims must be presented to the carrier).
  - e) Any cause other than a product defect.
- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- 3. Any product on which the serial number has been defaced, modified or removed.
- 4. Batteries.
- 5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
- 6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

#### Who may enforce the warranty

This warranty may be enforced only by the original purchaser.

#### What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

#### How you can get service

- 1. If your unit needs service, contact Marantz customer service by calling **201-762-6666**. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.
- 2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.
- 3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

#### Limitation of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

#### **Exclusion of damages**

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

#### How state law relates to the warranty

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# Marantz America, Inc.

100 Corporate Drive, Mahwah, NJ, 07430-2041 Phone. 201-762-6666