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marantz[®] AV Surround Receiver NR1602



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□ SAFETY PRECAUTIONS



CAUTION:

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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 RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings.
- Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. 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.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. Refer all servicing to gualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

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

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

> marantz Europe A division of D&M Europe B.V. Beemdstraat 11, 5653 MA Eindhoven. The Netherlands

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.





Information



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NOTES ON USE

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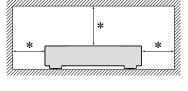
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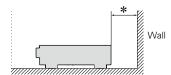
GUI

CAUTIONS ON INSTALLATION

WARNINGS

- Avoid high temperatures.
- Allow for sufficient heat dispersion when installed in a rack.
- Handle the power cord carefully. Hold the plug when unplugging the cord.
- Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time.
- Do not obstruct the ventilation holes.
- Do not let foreign objects into the unit.
- Do not let insecticides, benzene, and thinner come in contact with the unit.
- Never disassemble or modify the unit in any way.
- Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.
- Naked flame sources such as lighted candles should not be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.
- Do not handle the mains cord with wet hands.
- When the switch is in the OFF (STANDBY) position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.





- * 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.



Getting started

Thank you for purchasing this marantz product. To ensure proper operation, please read this owner's manual carefully before using the product. After reading them, be sure to keep them for future reference.

Contents

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Getting started 1	
Accessories2	
Features2	
Cautions on handling3	

Basic version Connections Connecting an HDMI-compatible device7 Connecting a TV------9 Connecting a set-top box (Satellite tuner/Cable TV)10 Connecting an iPod or USB memory device to the USB port.....11 Connecting a CD player12 Connecting a wireless receiver (RX101)13 Connecting to a home network (LAN)14 Settings 15 Set up speakers (Audvssev® Auto Setup)15 Making the network settings (Network Setup)......21 Playback (Basic operation) 22 Plaving an iPod-----25 Playing a USB memory device-----27 Selecting a listening mode (Surround mode) ------46 Selecting a listening mode------46

Advanced version Connect ------ 53 Connections (Advanced connection) 61 Playback in ZONE2 (Separate room)73 Sleep timer function74 How to make detailed settings 75 Menu map75 Examples of menu screen displays76 Examples of menu and front display77 Other settings Operating the connected devices by remote control unit 106

Information

Part names and functions 114
Front panel······114
Display ······115
Rear panel······116
Remote control unit117
Other information 119
Trademark information 119
Surround ······120
Relationship between video signals and monitor output124
Explanation of terms
Troubleshooting 128
Resetting the microprocessor132
Specifications 133

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Accessories

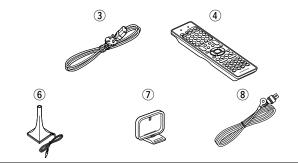
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Check that the following parts are supplied with the product.

1 Getting Started	
3 Power cord	
4 Remote control unit (RC014SR)1	
5 R03/AAA batteries	
6 Setup microphone (ACM1H)1	
⑦ AM loop antenna 1	
8 FM indoor antenna 1	



Features

Fully discrete, identical quality and power for all 7 channels (50 W x 7ch, 8 Ω)

The unit is equipped with a power amplifier that reproduces 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 reproduction.

Supports internet radio, music, and photograph streaming

Supports AirPlay[®] (mage 65)

When connected to a network, this unit can play audio files and still images such as photographs that are stored on your computer. You can also listen to internet radio and a host of other online music sources that use network technology. This unit also supports AirPlay that lets you stream your music library from an iPhone, iPad, iPod touch or iTunes.

Compatible with "Wizz App" for performing basic operations of the unit with an iPhone or iPod touch^{*1}

"Wizz App" is application software that allows you to perform basic operations with an iPhone or iPod touch such as turning the unit ON/OFF, controlling the volume, and switching the source.

*1 Download "Wizz App" from iTunes[®] App Store. The unit needs to be connected to a LAN and the iPhone/iPod touch needs to be connected to the same network by Wi-Fi (wireless LAN).

Setup wizard, providing easy-to-follow setup instructions

First select the language when prompted. Then simply follow the instructions displayed on the TV screen to set up the speakers, network, etc.

Easy to use, Graphical User Interface

This unit is equipped with an easy to see "Graphical User Interface" that uses menu displays and levels. The use of level displays increases operability of the this unit.

Direct play for iPod[®] and iPhone[®] via USB ($prescript{page 11}$)

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. When an iPod is connected, merely pressing **■** starts playback of music from the iPod.

Supports HDMI 1.4a with 3D, ARC, Deep Color, "x.v.Color", Auto Lip Sync and HDMI control function (mpage 7)

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 reproduces TV sound with this unit via an HDMI cable used for connecting the unit and a TV*2.

*2 The TV should support the ARC function.

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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.

Important information

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.

M-XPort (marantz-eXtension Port) (page 13)

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.

Cautions on handling

Before turning the power 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.





Advanced version

🕼 page 8, 9

page 24

page 12

page 24

page 11

page 25

🕼 page 8

page 13

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Basic version

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

- Connections
 <u>page 5</u>
- Settings 15
- Playback (Basic operation) 2 page 22
- Selecting a listening mode (Surround mode) mage 46

	Connection	≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥ ≥		Connection
TV	Playback	_ _	BD	Playback
	Connection) 🖉 page 8, <u>10</u>		Connection
DWD	Playback	> 🕼 page 24	CD	Playback
	Connection) 🖉 page 8, <u>10</u>		Connection
SAT	Playback	_	iPod	Playback
	Connection	> 🕼 page 11	£	Connection
USB	Playback	> 🕼 page 27	GAME	Playback
	Connection	> 🕼 page 12		Connection
TÜNER	Playback	> 🕼 page 29	M-XPort	Playback
	Connection			
NET	Playback	E page 33		

For speaker connections, see page 53, and page 6 "Connecting the speakers".





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Connections

Important information

- Make connections as follows before using this unit. Select an appropriate connection type according to the devices 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 devices being connected.

NOTE

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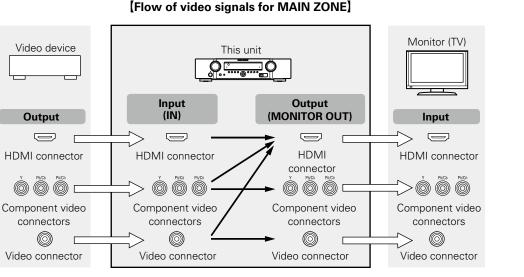
- Do not plug in the power cord until all connections have been completed. (When the Setup wizard is running, follow the instructions in the Setup wizard screen for making connections.)
- When running the Setup wizard, turn off the power supply of connected devices.
- When making connections, also refer to the operating instructions of the other devices being connected.
- 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 connectors (HDMI, Component video and video) and three types of video output connectors (HDMI, Component video and video).

Use the connectors corresponding to the devices 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.



- The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats.
- Resolutions of HDMI-compatible TVs can be checked at "Monitor Info." (127 page 85).

NOTE

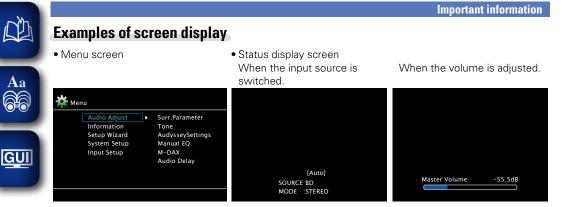
- HDMI signals cannot be converted into analog signals.
- Component video input signals cannot be converted into Video format.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

© See overleaf

Basic version







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

NOTE

- If you operate the menu while playing back 3D video content or computer's resolution (e.g. VGA), the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.
- This unit does not show the status display while playing back 3D video content or computer's resolution (e.g. VGA).
- The menu screen and status display are displayed when this unit and a TV are connected by HDMI. Furthermore, the menu screen and status display are not displayed when this unit and a TV are connected by VIDEO and COMPONENT VIDEO.





Advanced version

Connecting an HDMI-compatible device

You can connect up to five HDMI-compatible devices (4-inputs/1-output) to the unit.

HDMI function

• 3D

This unit supports the following HDMI functions:

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- Deep Color (Ppage 125)
- Auto Lip Sync (B page 90, 125)
- "x.v.Color". sYCC601 color, Adobe RGB color, Adobe YCC601 color (125, 126, 127)
- 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 devices. 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 is connected, use a cable compatible with "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 (*proge* 62)

This function allows you to operate external devices from the unit and operate the unit 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 HDMI 1.4a. To play back 3D video, you need a TV and player that provide support for the HDMI 1.4a 3D function and a pair of 3D glasses.

NOTE

- When plaving back 3D video, refer to the instructions provided in the manual of your plavback device together with this manual.
- If you operate the menu while playing back 3D video content, the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.
- This unit does not show the status display while playing back 3D video content.
- If 3D video with no 3D information is input, the menu screen and status display on this unit are displayed over the playback video.
- If 2D video is converted to 3D video on the television, the menu screen and status display on this unit are not displayed correctly. To view the menu screen and status display on this unit correctly, turn the television setting that converts 2D video to 3D video off.

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 90).
- 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" (page 9) for the connection method.

About Content Type

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

NOTE

To enable the Content Type, set "Video Mode" to "Auto" (Cppage 102).

See overleaf



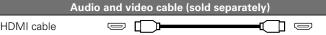




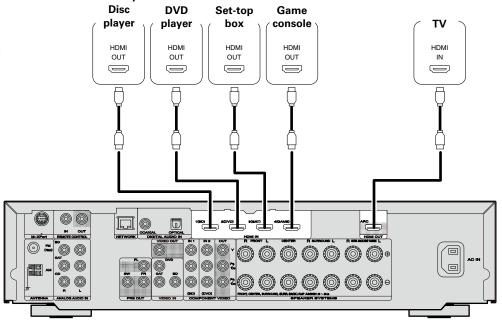


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- This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.
 - Blu-ray



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- 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, 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 (🖅 page 101)

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

HDMI Setup (127 page 90)

Make settings for HDMI video/audio output.

- Auto Lip Sync
 HE
 - HDMI Audio Out
- HDMI Control

Standby Source

P.Off Control

NOTE

The audio signal input from the HDMI input connector can be output as an output signal from the HDMI output connector by setting the HDMI audio output destination to TV.

Audio signals input via the Analog/Coaxial/Optical input connectors cannot be output from the HDMI output connector.



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)" (mpage 5).
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (127 page 7).

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

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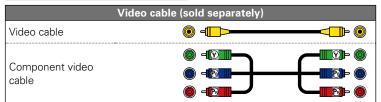
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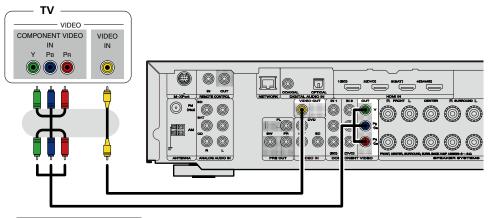
GUI

The optical 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" (<u>Page 7</u>) or refer to the instruction manual for your TV.

Cables used for connections





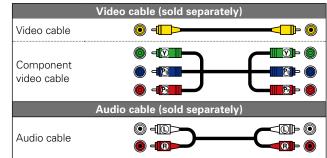
in Set as Necessary

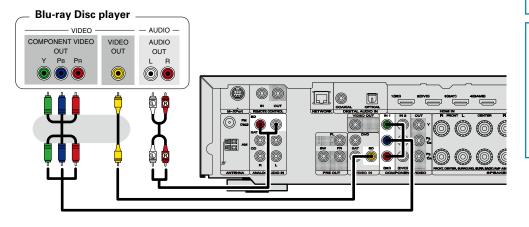
At the time of purchase, the OPTICAL input connector is assigned to "CD". To use the OPTICAL input connector for the TV audio input, change the settings of "Input Assign" (17) page 101) in the menu.

Connecting a Blu-ray Disc player

- You can enjoy video and audio from a Blu-ray Disc.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (17 page 7).

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" (Ppage 101)

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When you want to play back HD Audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus, DTS Express) and Multichannel PCM with this unit, use an HDMI connection (<u>page 7</u> "Connecting an HDMI-compatible device").

Connecting a DVD player

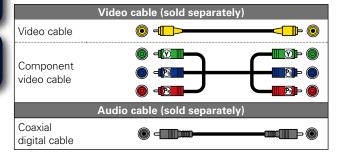
- You can enjoy video and audio from a DVD.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (1 page 7).

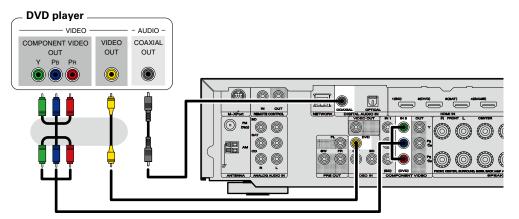
Cables used for connections

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in Set as Necessary

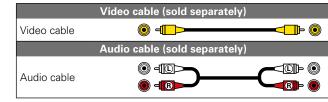
Set this to change the digital input connector or component video input connector to which the input source is assigned.

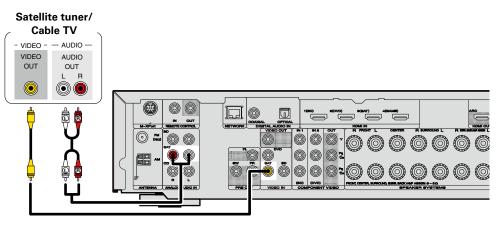
"Input Assign" (mppage 101)

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" (17 page 7).

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" (mpage 101)

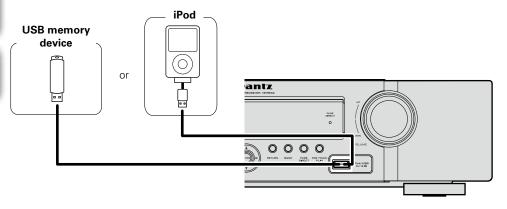


Connecting an iPod or USB memory device to the USB port

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.



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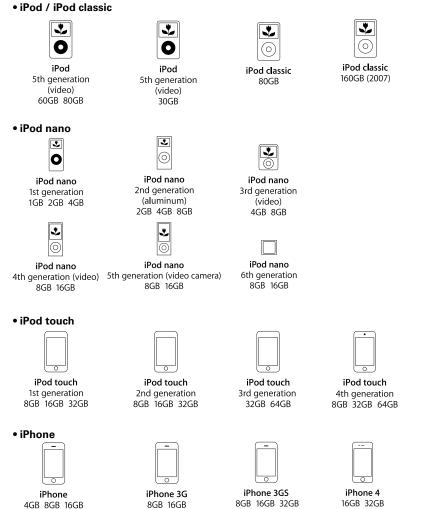
marantz does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.

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.
- This unit does not support playback on an iPad. Do not connect an iPad to the unit.
- When connecting an iPhone to this unit, keep the iPhone at least 20 cm away from this unit. If the iPhone is kept closer to this unit and a telephone call is received by the iPhone, noise may be output from this device.

Supported iPod models

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iPod classic

160GB (2009)

Basic version

Connecting a CD player

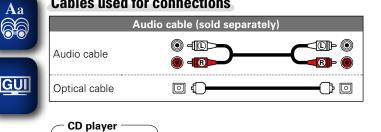
• You can enjoy CD sound.

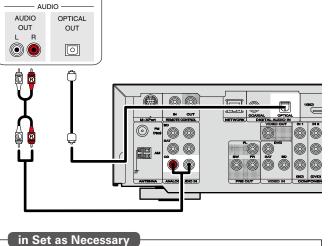
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GUI

Select the connector to use and connect the device.

Cables used for connections

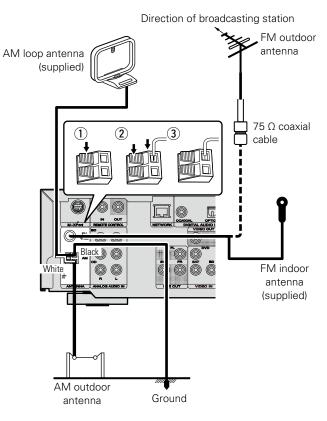




Set this to change the digital input connector to which the input source is assigned. "Input Assign" (mpage 101)

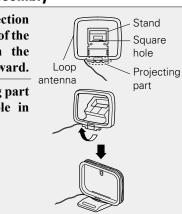
Connecting an antenna

- 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 (mpage 29 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.



□ AM loop antenna assembly

- Put the stand section through the bottom of the loop antenna from the rear and bend it forward.
- Insert the projecting part into the square hole in the stand.



Using the AM loop antenna

Suspending on a wall

Suspend directly on a wall without assembling.

Nail, tack, etc.

Standing alone

Use the procedure shown above to assemble.



NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.
- If the signal has noise interference, connect the ground terminal (GND) to reduce noise.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.



Advanced version

Information



Connecting a wireless receiver (RX101)

By connecting a wireless receiver RX101 (sold separately) to this unit, you can receive and playback audio signals from other devices using the Bluetooth Communication Function.

- Use a Bluetooth device that is A2DP compatible (Ppage 125 "A2DP").
- You can also use wireless receiver RX101 as an external IR receiver.
- For instructions on the wireless receiver settings, refer to the RX101's operating instructions.

Wireless receiver RX101 ÷ **600** M-XPort 0 (..... \odot Bluetooth device (A2DP Compatibility) ANALOG AUDIO IN

Remote control unit

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You can enjoy listening to music by connecting a wireless receiver via the M-XPort input connector. In this case, set the input source to "M-XPort".

NOTE

To use wireless receiver RX101 as external IR receiver, set the remote sensor function of this unit to disable (*page 105* "Remote control settings").





Connecting to a home network (LAN)

• This unit lets you play via your home network (LAN) music files stored on a computer and music content such as that from Internet radio.

You can also operate this unit from a computer using the Web control function.

 You can update by downloading the latest firmware from the marantz website.

For more information, on the menu, select "Firmware Update" (Cr page 97).

• See "Network Setup" on the menu (marginger 92) for more information on network setting.

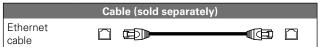
Cables used for connections

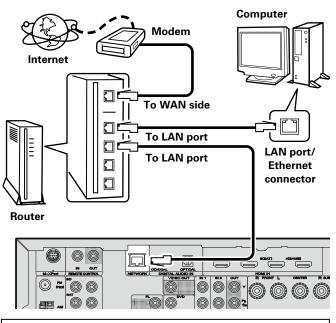
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GUI





For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

Required system

Broadband internet connection

Device that connects to the broadband circuit and conducts communications on the Internet. A type that is integrated with a router is also available.

Router

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When using this unit, we recommend you use a router equipped with the following functions:

- Built-in DHCP server This function automatically assigns IP addresses on the LAN.
- Built-in 100BASE-TX switch When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

U Ethernet cable (CAT-5 or greater recommended)

- Use only a shielded STP or ScTP LAN cable which is available at retailer.
- Some flat type Ethernet cables are easily affected by noise. We recommend using a normal type cable.
- If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network Setup" (Cr page 92).
- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.

When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at "Network Setup" (Ppage 92).

• When setting manually, check the setting contents with the network administrator.

NOTE

- A contract with an ISP is required to connect to the Internet. No additional contract is needed if you already have a broadband connection to the Internet.
- The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
- marantz assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices.
- This unit is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a type of line set by PPPoE.
- Do not connect an NETWORK connector directly to the LAN port/ Ethernet connector on your computer.
- To listen to audio streaming, use a router that supports audio streaming.

Advanced version

Settings

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GUI

Here, we explain "Audyssey[®] Auto Setup", which allows you to automatically make the optimal settings for your speakers, and "Network Setup", which allows you to connect this unit to a home network (LAN).

This unit lets you play via your home network (LAN) music files stored on a computer and music content such as that from Internet radio.

□ Set up speakers (Audyssey[®] Auto Setup) (**E** page 15)

□ Making the network settings (Network Setup) (**P** page 21)

Playback (Basic operation) (page 22)

Selecting a listening mode (Surround mode) (**E** page 46)

Playback (Advanced operation) (Page 62)



Set up speakers (Audyssey® Auto Setup)

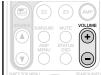
The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey[®] Auto Setup".

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, Audyssey MultEQ[®]/ Audvssev Dynamic EQ®/Audyssey Dynamic Volume® functions become active (Pr page 82, 83).
- To set up the speakers manually, use "Speaker Setup" (Repage 87) 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.

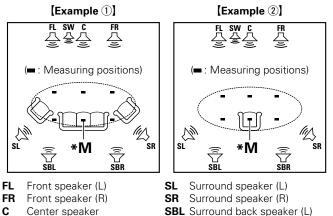


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SW Subwoofer

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.



- SBL Surround back speaker (L)
- SBR Surround back speaker (R)

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[®] uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

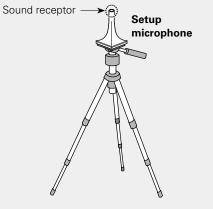


GUI

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.



2

Set up the subwoofer

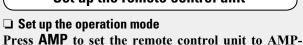
If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below.

When using a subwoofer with a direct mode

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

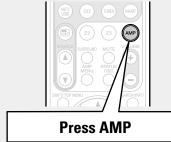
U When using a subwoofer without a direct mode

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



3

operation mode.



See overleaf

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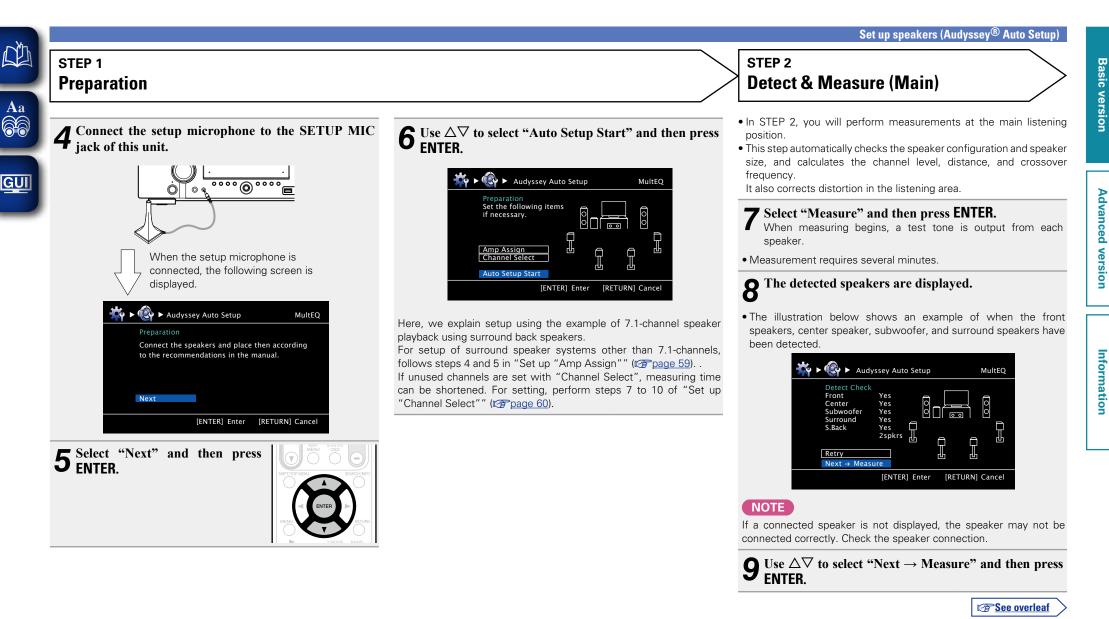
If you do not have a tripod or stand, set up the microphone on, for example, a seat without a back.

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.



Advanced version





STEP 2 (Continued) **Detect & Measure (Main)**

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GUI

If "Caution!" is displayed:

"Audyssey[®] Auto Setup".

NOTE

Go to "Error messages" (magaze 20), check any related items, and perform the necessary procedures. If the problem is resolved, return and restart



When performing Audyssey[®] Auto Setup over again

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

When measuring has stopped

① Press **RETURN**, to the "Cancel Auto Setup?" prompt is displayed. ② Press ⊲ to select "Yes", then press ENTER.

Setting up the speakers again

Repeat the operation from step 4 of **STEP 1 Preparation**



- In STEP 3, you will perform measurements at multiple positions (two to six positions) other than the main listening position.
- Just one position can be measured but measuring multiple positions increases the accuracy of the correction of acoustic distortion within the listening area.

\land Move the setup microphone to position 2, use $\triangle \nabla$ to select "Measure", and then press ENTER.

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

🙀 🕨 🚱 🕨 Audys	sey Auto Setup	MultEQ
Measure (2nd) Please place the microphone at o height at 2nd listening positio Measure Next → Calculai		
	[ENTER] Enter [RETURN] Cancel

If you want to omit measurements from the next position onward, select "Next \rightarrow Calculate". (Go to STEP4 Calculate >)

4 Repeat step 10, measuring positions 3 to 6.

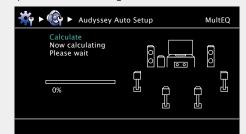
When measurement of position 6 is completed, a "Measurements finished." message is displayed.

🔆 די אין אין אין אין אין אין אין אין אין אי	MultEQ
Measure (Finish) Measurements finished.	
Retry Next → Calculate	
[ENTER] Enter [RETUR	N] Cancel

STEP 4 Calculate

? On the STEP 3 > screen, use $\Delta \nabla$ to select "Next \rightarrow Calculate", and then press ENTER.

Measuring results are analyzed, and the frequency response of each speaker in the listening room is determined.



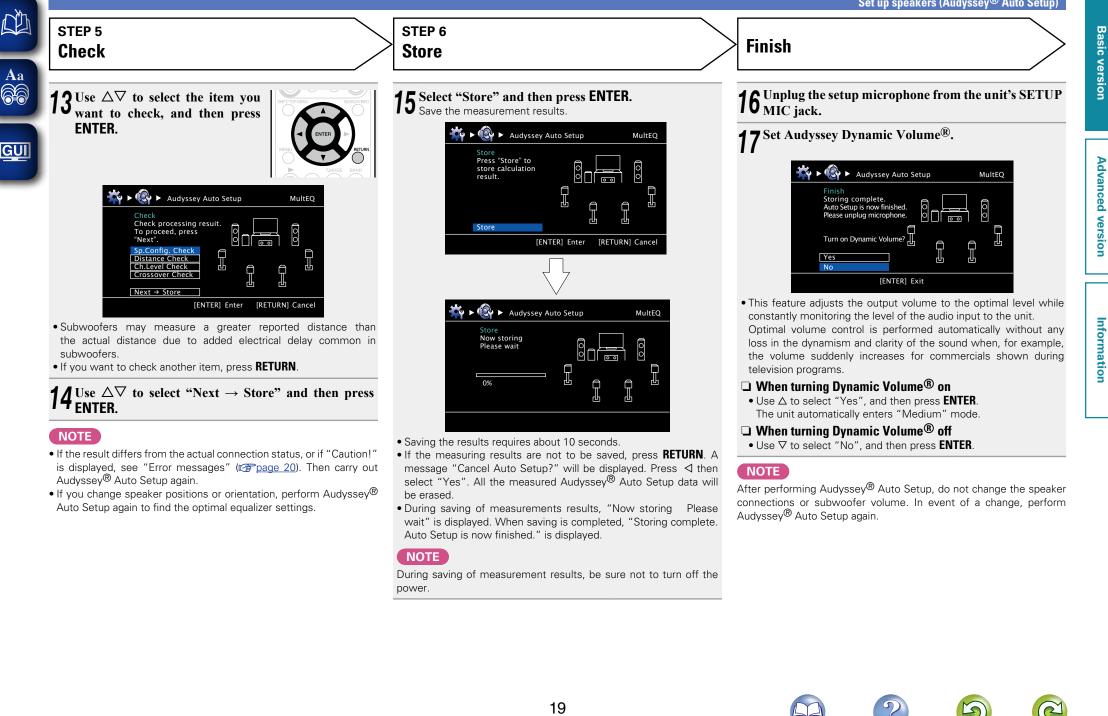
• Analysis takes several minutes to complete. The time required for this analysis depends on the number of speakers connected. The more connected speakers there are, the longer it takes to perform analysis.



Basic version



Set up speakers (Audyssey[®] Auto Setup)



Error messages

NOTE

- An error message is displayed if Audyssey[®] 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.
- 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.
- Be sure to turn off the power before checking speaker connections.

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Examples	Error details	Measures
Caution! Microphone or Speaker is none Retry Retry	 The connected setup microphone is broken, or a device other than the supplied setup microphone is connected. Not all speakers could be detected. The front L speaker was not properly detected. 	 Connect the included setup microphone to the SETUP MIC jack of this unit. Check the speaker connections.
Image: Caution! MultEQ Caution! Ambient noise is too high or level is too low Retry Image: Caution of the second seco	 There is too much noise in the room for accurate measurements to be made. Speaker or subwoofer sound is too low for accurate measurements to be made. 	 Either turn off any device generating noise or move it away. Perform again when the surroundings are quieter. Check the speaker installation and the direction in which the speakers are facing. Adjust the subwoofer's volume.
Image: Weight of the second secon	• The displayed speaker could not be detected. (The screen on the left indicates that the front right speaker cannot be detected.)	• Check the connections of the displayed speaker.
Kip Kip Skip Kip Ketry MultEQ MultEQ	• The displayed speaker is connected with the polarity reversed. (The screen on the left indicates that the polarity phases of the front right speakers are reversed.)	 Check the polarity of the displayed speaker. 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.

20

Set up speakers (Audyssey[®] Auto Setup)

Parameter Check

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GUI

Auto Setup. **1** Use $\Delta \nabla$ to select "Parameter Check" and then press ENTER. 🗱 🕨 🔞 Auto Setup ► 🙀 ► Parameter Check Auto Setup Sp. Config. Check Sp. Config. Check ▲ Parameter Check ▶ Distance Check Distance Check Ch. Level Check Ch. Level Check Crossover Check Crossover Check EQ Check EQ Check Restore **2** Use $\triangle \nabla$ to select the item you want to check, then press ENTER or \triangleright or ⊳. Measurement results for each speaker are displayed. Sp.Config. Check Check the speaker configuration. **Distance Check** Check the distance. **Ch. Level Check** Check the channel level. **Crossover Check** Check the crossover frequency. EQ Check Check the equalizer.

This function enables you to check the measurement results and equalizer characteristics after Audyssey $^{ extsf{B}}$

 If "EQ Check" is selected, press △∇ to select equalizing curve ("Audyssey" or "Audyssey Flat") to be checked.

Use $\triangleleft \triangleright$ to switch the display between the different speakers.

? Press **RETURN**.

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.



This unit can be connected to a home network (LAN) to listen to Internet radio or play back music files and still image (JPEG) files stored on a computer.

1 Connect the Ethernet cable (C page 14 "Connecting to a home network (LAN)").

7 Turn on this unit (<u>page 5 "Getting Started</u>").

This unit performs automatic network setup due to the DHCP function. When connecting to a network that has no DHCP function, perform the setting in "Network Connect." (page 92). **Basic version**



Playback (Basic operation)

Settings (Proge 15)

- Aa
- □ Selecting the input source (Proge 22) □ Adjusting the master volume (™ page 23)
- □ Turning off the sound temporarily (12) page 23)
- GUI
- Playing a Blu-ray Disc player/DVD player (C) page 24)
- □ Playing a CD player (Page 24)
- □ Playing an iPod (Proge 25)
- Playing a USB memory device (
 page 27)
- **Tuning in radio stations** (*page 29*)
- □ Playing a network audio (2) page 33)

Selecting a listening mode (Surround mode) (12) page 46)

Playback (Advanced operation) (page 62)

Important information

Before starting playback, make the connections between the different devices and the settings on the unit.

NOTE

Also refer to the operating instructions of the connected devices when playing them.

DVD

(NET/ USB) (CD) (TUNER) (M-XP)

(Ⅲ)(►)

Selecting the input source

Press the input source select button (BD, DVD, SAT, TV, NET/USB, CD, TUNER or M-XP) twice to be played back.

When an input source select button (BD, DVD, SAT, TV, CD, NET/USB, TUNER or

M-XP) is pressed once, the unit switches to device selected by the operating mode of the remote control. If the input source select button is then pressed again twice, the input source for the unit is switched.

• When **b** is pressed, the input source of this unit is switched to "NET/USB" and the connected iPod is automatically played (page 26 "iPod play function").

The input source "GAME" is selected to playback from a game device connected to GAME connector of HDMI IN.

Select the input source "GAME" using one of the following methods. • "Source Select" menu

- ("Using the "Source Select" menu" provided on the right)
- **SOURCE V** button on the remote control unit ("Using the **SOURCE AV** button on the remote control unit" (CP page 23))
- INPUT SELECTOR knob on the main unit

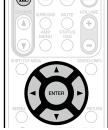
("Using the knob on the main unit" (12 page 23))

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

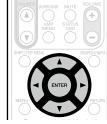
Using the "Source Select" menu

→ Sour	ce Select		ently selected input highlighted.
Player BD DVD CD M-XPort USB/iPod	Video SAT TV GAME	Tuner TUNER	Network Favorites Internet Radio Media Server Flickr Last.fm Napster
[⊲⇔⊳] N	love	[ENTER] Enter	
Press \blacksquare . Display the "S Use $\Delta \nabla \triangleleft \triangleright$ then press EN	to select the		CURREN SU

The input source is set and the source selection menu is turned off.







(1)

(2)

- When using with an iPod connected directly to the USB port of this unit, select "USB/iPod" for the input source.
- Input sources that are not going to be used can be set ahead of time. Make this setting at "Source Delete" (Page 96).
- To turn off the source selection menu without selecting an input source, press 🔜 again.
- When 🔜 is pressed, the AMP-operation mode starts automatically (Cp page 106).





Information

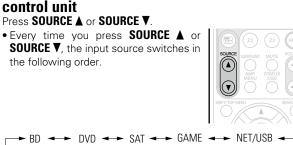




Important information





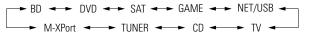


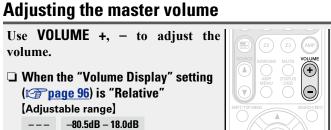
 \Box Using the SOURCE \blacktriangle \forall button on the remote

Using the knob on the main unit Turn INPUT SELECTOR.

• Every time you turn **INPUT SELECTOR**, the input source switches in the following order.

→ M-XPort ← → TUNER ← → CD ← → TV ←





When the "Volume Display" setting (page 96) is "Absolute"

[Adjustable range] 0.0 – 99.0

• The variable range differs according to the input signal and channel level setting.

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

Turning off the sound temporarily

Press MUTE.

"MUTE" indicator on the display lights.
Mappears on a TV screen.

) (Z3)	AMP
)	VOLUME
DC	$) \bigcirc$	Θ

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- The sound is reduced to the level set at "Mute Level" (page 96).
- To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

Set the front speakers to be used

Press SPEAKER A/B.



- Front Sp A+B ৰ

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Advanced version

Basic version







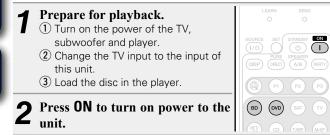
Playing a Blu-ray Disc player/DVD player

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GUI

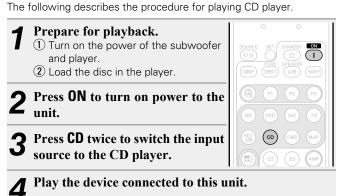
The following describes the procedure for playing Blu-ray Disc player/ DVD player.



3 Press **BD** or **DVD** twice to switch an input source for a player used for playback a player used for playback.

Play the device connected to this unit. 4

Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.



Playing a CD player





















Playing an iPod

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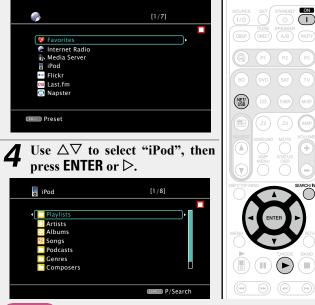
GUI

You can enjoy music stored on an iPod.

Connect the iPod to the USB port (Page 11 "Connecting an iPod or USB memory device to the USB port").

2 Press **ON** to turn on power to the unit.

3 Press **NET/USB** twice to switch the input source to "NET/USB".



NOTE

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

5 Press **SEARCH/INFO** and hold it down for 2 seconds or more to select the direct 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.

• The unit display shows single-byte alphanumeric characters and some symbols only. "." is displayed in place of incompatible characters.

• 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
	iPod		\checkmark

* Only the sound is played.

Use $\Delta \nabla$ to select the item, then press ENTER or \triangleright 6 to select the file to be played.

Press ENTER, \triangleright or \blacktriangleright . Playback starts.

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i 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 "iPod" (\square page 97). 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 (page 84). The default setting is "OFF".
- In Remote mode, press STATUS on the main unit during playback to check the title name, artist name, and album name.

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.

See overleaf











Playing an iPod

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□ iPod operation

	Operation buttons	Function
LEAVIN SEND O SET STANDEY	SEARCH/INFO (Press and release)	Page search*1 / Character sort*2
PUEE SPEAKER (REC: AB (NET) PI (P2 (P3)	SEARCH/INFO (Press and hold)	Remote / Direct mode switching
000 ST TV 00 INS (SD) (22) (22) (33)		Cursor operation / Auto search (cue, $\Delta \nabla$) / Manual search (Press and hold, $\Delta \nabla$)
AMP STATUS MENU CSD	ENTER (Press and release)	Enter / Pause
SEARCH NEO	ENTER (Press and hold)	Stop
RELIRN	RETURN	Return
	II	Pause
	►	Playback / Pause
		Stop
)(5)(6)(🗙)		Auto search (cue)
	44 >>	Manual search
	(Press and hold)	(fast-reverse/fast-forward)
marantz	REPEAT 🖒	Repeat playback
RC014SR	RANDOM 🗙	Random playback
	TV I/ტ	TV power on/standby (Default : marantz)
	TV INPUT	Switch TV input (Default : marantz)

iPod play function

If **■** is pressed when an iPod (USB) is connected, the iPod starts playback.

Press 🖥 🍉.

- This unit's input source switches to "NET/USB".
- iPod playback starts.



- Repeat playback (page 104 "Repeat")
- Random playback (page 104 "Random")
- *¹ When the menu screen is displayed, press SEARCH/INFO, then press ⊲ (previous page) or ▷ (next page).
 To cancel, press △▽ or SEARCH/INFO twice.
- *2 When the menu screen is displayed, press SEARCH/INFO twice, then press > to select the first letter you want to search mode.

 If it is not possible to search the list, "unsorted list." is displayed. To cancel, press > A or SEARCH/INFO.

B

ALITO DIVIVOL 4 TONE 7 MEMORY CLR

If the list is not in alphabetical order, you may not be able to perform a character sort.









Playing a USB memory device

Playing back music or still picture (JPEG) 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 and still picture (JPEG) files stored on the USB memory device.
- Also, files stored on an iPod can be played when the iPod is connected directly to the USB port of this unit. See "Playing an iPod" (page 25).
- Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on this unit.
- This unit is compatible with USB memory devices in "FAT16" or "FAT32" format.

Album art function

When an MP3 music file includes album art data, the album art can be displayed while playing the file.

Slide show function

Still picture (JPEG) files stored on USB memory devices can be played as slide shows. Also, you can set the time display that is shown during playback (<u>Page 104</u>).

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GUI

This unit plays back image (JPEG) files in the orientation in which they are stored in the folder.

□ Function that simultaneously plays back music and image files from the network

You can playback music and image files at the same time by playing back music files, and then playing back image files.

Also, when selecting music files after playing back image files, press **SEARCH/INFO** when the music playback screen is displayed. Music files and image files can be played back simultaneously. At this time, set "Slide Show" (<u>page 104</u>) in the menu to "ON".



Network contents that can be played back simultaneously are as follows.

Music files: Favorites, Internet Radio, Media Server, USB, iPod Remote Mode (NET/USB)
Image files: Media Server, USB, Flickr

[Compatible formats]			
	USB memory devices *1		
WMA (Windows Media Audio)	√*2		
MP3 (MPEG-1 Audio Layer-3)	✓		
WAV	✓		
MPEG-4 AAC	√*3		
FLAC (Free Lossless Audio Codec)	\checkmark		
JPEG	✓		

*1 USB

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. 2.3 or 2.4.
- This unit is compatible with WMA META tags.
- WAV format Quantization bit rate: 16 bits
- FLAC format Quantization bit rate: 16 or 24 bits
- *2 Copyright-protected files can be played on certain portable players compatible with MTP.
- *3 Only files that are not protected by copyright can be played on this unit.
 - Content downloaded from pay sites on the Internet are copyright protected. 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	Extension			
WMA (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			
WAV	32/44.1/48 kHz	-	.wav			
MPEG-4 AAC	32/44.1/48 kHz	.aac/ 16 – 320 kbps .m4a/ .mp4				
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96 kHz	_	.flac			

© See overleaf







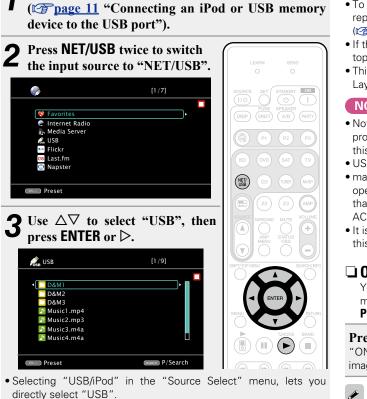
Playing a USB memory device

Last played internet radio station Preset channel (1 – 3) selection	
Preset channel $(1 - 3)$ selection	
Preset channel block selection	
Page search*1 / Character sort*2	
Cursor operation / Auto search (cue, ムマ) Enter / Pause	
Return	
Pause	
Playback / Pause	
Stop	
Auto search (cue)	
Preset channel selection	
Repeat playback	
Random playback	
TV power on/standby (Default : marantz)	
Switch TV input (Default : marantz)	
Preset channel (A1 – G8) selection	
VINFO Page search*1 / Character sort* ↓ ▷ Cursor operation / Auto search (cue, △▽) ER release) Enter / Pause ER release) Enter / Pause ER d hold) Stop RN Return Playback / Pause Stop ►►I Auto search (cue) 8 Preset channel selection TCD Repeat playback M X: Random playback / ① Switch TV input (Default : marantz) PUT Switch TV input (Default : marantz)	

- Repeat playback (page 104 "Repeat")
- Random playback (Pppage 104 "Random")
- Slide show playback (page 104 "Slide Show")
- *1 When the menu screen is displayed, press SEARCH/INFO, then press \triangleleft (previous page) or \triangleright (next page).
- To cancel, press $\Delta \nabla$ or **SEARCH/INFO** twice. *2 When the menu screen is displayed, press SEARCH/INFO twice,
- then press $\triangleleft \triangleright$ to select the first letter you want to search mode. • If it is not possible to search the list, "unsorted list." is displayed.
- To cancel, press $\Delta \nabla$ or **SEARCH/INFO**.

USB operation

If the list is not in alphabetical order, you may not be able to perform a character sort.



• Selecting "USB/iPod" in the "Source Select" menu, lets you directly select "USB".

Plaving files stored on USB memory

Connect the USB memory device to the USB port

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

ø

- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (\bigcirc page 97). Press $\triangle \nabla \triangleleft$ \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 (page 84). The default setting is "OFF".
- 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 Laver-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.

• One touch play function

You can play back music files and image files stored on a USB memory device at the same time simply by pressing ONE TOUCH PLAY on the main unit.

Press ONE TOUCH PLAY.

"ONE TOUCH PLAY" is shown on the display, and the music and image files on the USB memory device are played in list order.

If there are no music files on the USB memory device, only images are played. However, if there are no image files on the USB memory device, only musics are played.

NOTE

Place music and image files that you want to play back directly onto the USB memory device. Files inside folders cannot be played.

Aa

GUI

devices







Advanced version

Basic version

Tuning in radio stations

Listening to FM/AM broadcasts



- **3** Tune in the desired broadcast station.
- 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.

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GUI

• You can also operate via the main unit. In this case, perform the following operations.

Press BAND to select "FM" or "AM".

- Press $\Delta \nabla$ to select the station you want to hear.
- 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.
- The time (default : 30 sec) for which the menu are displayed can be set at menu "Tuner" (reg page 97). Press $\Delta \nabla \triangleleft \triangleright$ to return to the original screen.



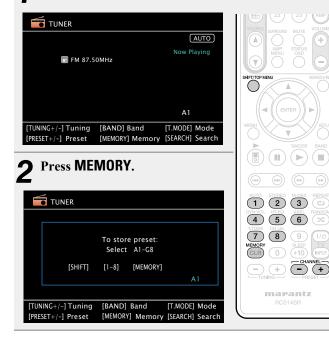
□ Presetting radio stations (Manual preset)

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 100**). If "Auto Preset" is performed after performing "Manual preset", the "Manual preset" settings will be overwritten.

Tune in the broadcast station you want to preset.



3 Press **SHIFT/TOP MENU** to select the block (A to G) in which the channel (1 to 8 per a block) is to be preset, then press **PRESET** +, **PRESET** – or 1 – 8 to select the preset number.

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

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

Default settings

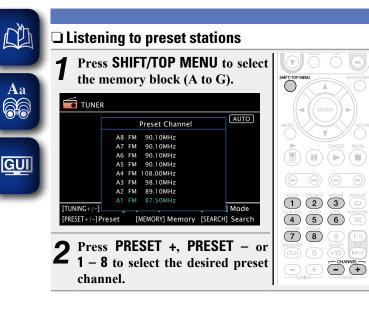
Block (A – G) and Channel (1 – 8)	Default Settings			
A1 – A8	87.50 / 89.10 / 98.10 / 108.00 / 90.10 / 90.10 / 90.10 / 90.10 MHz			
B1 – B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.10 / 90.10 / 90.10 MHz			
C1 – C8	90.10 MHz			
D1 – D8	90.10 MHz			
E1 – E8	90.10 MHz			
F1 – F8	90.10 MHz			
G1 – G8	90.10 MHz			

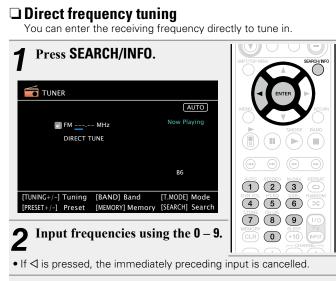
Specify a name for the preset broadcast station (Preset Name) (<u>preset Name</u>) (

See overleaf



Tuning in radio stations





3 When setting is completed, press ENTER. The preset frequency is tuned in.

RDS (Radio Data System)

Note that the RDS function only works when receiving RDS compatible stations.

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

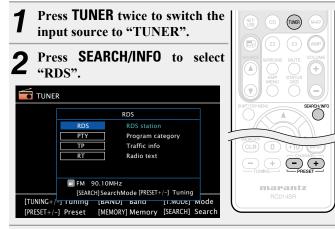
NOTE

The operations described as follows using SEARCH/INFO will not function in areas in which there are no RDS broadcasts.



D RDS search

Use this function to automatically tune to FM stations that provide the RDS service.



3 Press PRESET + or PRESET -.

- The search for RDS stations begins automatically.
- If no RDS stations are found with the above operation, all the reception bands are searched.
- When a broadcast station is found, that station's name appears on the display.
- If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.

If you press **PRESET +** or **PRESET –** within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.

Basic version







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PTY (Program Type)

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GUI

PTY identifies the type of RDS program. The program types and their displays are as follows:

3	NEWS	News	WEATHER
Y	AFFAIRS	Current Affairs	FINANCE
	INFO	Information	CHILDREN
	SPORT	Sports	CHILDREN
	EDUCATE	Education	SOCIAL
	DRAMA	Drama	RELIGION
_	CULTURE	Culture	PHONE IN
	SCIENCE	Science	TRAVEL
	VARIED	Varied	LEISURE
	POP M	Pop Music	JAZZ
	ROCK M	Rock Music	COUNTRY
	EASY M	Easy Listening	NATION M
		Music	OLDIES
	LIGHT M	Light Classical	FOLK M
	CLASSICS	Serious Classical	DOCUMEN
	OTHER M	Other Music	
		_	

□ PTY search

Weather

Finance

program

Reliaion

Phone In

Travel

Leisure

Jazz Music

Country Music

National Music

Oldies Music

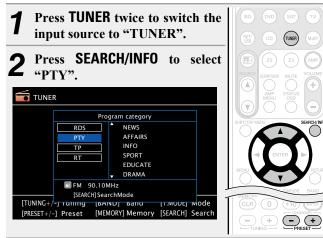
Documentary

Folk Music

Children's

Social Affairs

Use this function to find RDS stations broadcasting a designated program type (PTY).



3 Watching the display, press $\Delta \nabla$ to call out the desired program type.

Press PRESET + or PRESET -.

PTY search begins automatically.

- If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
- If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

ø

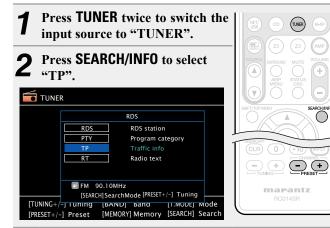
If you press **PRESET +** or **PRESET** – within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.

TP (Traffic Program)

TP identifies programs that carry traffic announcements. This allows you to easily find out the latest traffic conditions in your area before leaving home.

TP search

Use this function to find RDS stations broadcasting traffic programs (TP stations).



3 Press PRESET + or PRESET –.

TP search begins automatically.

- If no TP station is found with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
 If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

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If you press **PRESET +** or **PRESET –** within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.





Basic version

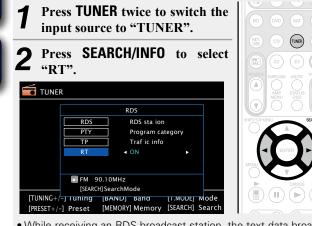
Advanced version

Information

RT (Radio Text)

RT allows RDS stations to send text messages that appear on the display.

"RT" appears on the display when radio text data is received.



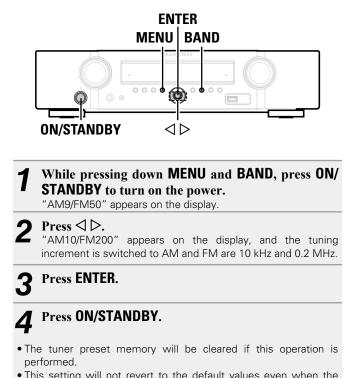
Operation buttons Function SHIFT/TOP MENU Preset channel block selection SEARCH/INFO Direct frequency tuning / RDS search $\Box \nabla \Box \triangleright$ Cursor operation ENTER Enter RETURN Return T.MODE Switch search modes BAND FM/AM switching Preset channel selection (1 - 8) /0 – 9 Direct frequency tuning (0 - 9)MEMORY Preset memory registration TV power on/standby TV 1/也 (Default : marantz) **TV INPUT** Switch TV input (Default : marantz) TUNING +, -Tuning (up/down) 123 PRESET +, -Preset channel selection 4 5 6

□ Tuner (FM/AM) operation

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Switching the tuning increment

The tuning increment factory settings are 9 kHz for AM, and 0.05 MHz for FM.

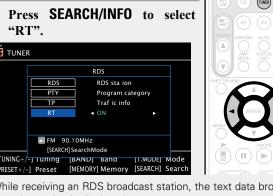


• This setting will not revert to the default values even when the microprocessor is reset.

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GUI



• While receiving an RDS broadcast station, the text data broadcast from the station is displayed.

• To turn the display off, press $\triangleleft \triangleright$.

• If no text data is being broadcast, "NO TEXT DATA" is displayed.

32





Playing a network audio

Information

Important information

computer.

Aa

GUI

□ About the internet radio function

- Internet radio refers to radio broadcasts distributed over the Internet. Internet radio stations from around the world can be received.
- This unit is equipped with the following Internet radio functions:
- Stations can be selected by genre and location.
- Up to 56 Internet radio stations can be preset.
- Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.

Follow this procedure to play Internet radio stations or music or still picture (JPEG) files stored on a

- Your favorite radio stations can be registered by accessing an exclusive marantz Internet radio URL from a Web browser on a computer.
- The function is managed for individual users, so you must provide your MAC or e-mail address. Exclusive URL: <u>http://www.radiomarantz.com</u>
- The radio station database service may be suspended without notice.
- This unit's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for this unit.

□ Media player

This function lets you play music files and playlists (m3u, wpl) stored on a computer (media server) connected to this unit via a network.

With this unit's network audio playback function, connection to the server is possible using one of the technologies below.

- Windows Media Player Network Sharing Service
- Windows Media DRM10

Album art function

When a WMA (Windows Media Audio), MP3 or MPEG-4 AAC file includes album art data, the album art can be displayed while the music files are playing.

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If you use Ver.11 or later of Windows Media Player, the album art for WMA files can be displayed.

Slide show function

You can play back image (JPEG) files that are stored in folders on a media server and photographs on Flickr as a slideshow.

Also, you can set the time display that is shown during playback (127 page 104).

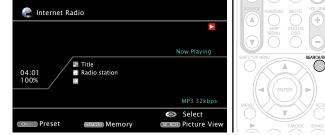
ø

This unit plays back image (JPEG) files in the orientation in which they are stored in the folder.

u Function that simultaneously plays back music and image files from the network

You can playback music and image files at the same time by playing back music files, and then playing back image files.

Also, when selecting music files after playing back image files, press **SEARCH/INFO** when the music playback screen is displayed. Music files and image files can be played back simultaneously. At this time, set "Slide Show" (@page 104) in the menu to "ON".



Network contents that can be played back simultaneously are as follows.

- Music files: Favorites, Internet Radio, Media Server, USB, iPod Remote Mode (NET/USB)
- Image files: Media Server, USB, Flickr

See overleaf









[Compatible formats]

[compatible formats]			
	Internet radio	Media server *1	
WMA (Windows Media Audio)	\checkmark	\checkmark	
MP3 (MPEG-1 Audio Layer-3)	\checkmark	\checkmark	
WAV		✓	
MPEG-4 AAC		√*2	
FLAC (Free Lossless Audio Codec)		✓	
JPEG		✓	

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

*1 Media server

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GUI

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. 2.3 or 2.4.
- This unit is compatible with WMA META tags.
- WAV format Quantization bit rate: 16 bits
- FLAC format Quantization bit rate: 16 or 24 bits
- *2 Only files that are not protected by copyright can be played on this unit.

Content downloaded from pay sites on the Internet are copyright protected. 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	Extension
WMA (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
WAV	32/44.1/48 kHz	-	.wav
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96 kHz	_	.flac

About Flickr

Flickr is an online photograph sharing service that started in 2004. You can use the this unit to view photographs that have been made public by Flickr users. You do not need an account to use Flickr. To view photographs that you recorded yourself, you need an account in order to upload these photographs to the Flickr server. For details, see the Flickr homepage.

http://www.flickr.com/

About Last.fm

Last.fm learns what you love... and it's a great way to discover new music.

Your new marantz AV receiver is very clever. You can create a free Last.fm profile when you start using your marantz AV receiver and magically keep track of all the songs you hear.

When you sign in at <u>www.last.fm</u>, you can see your top music charts, view thousands of reviews, biographies and artwork, and get recommendations for local performances you won't want to miss. With an affordable subscription you can enjoy an endless choice of personalised ad-free radio stations. Check out <u>www.last.fm/subscribe</u> today for more details.

Your subscription also gives you access to Last.fm radio on a great range of music products, including your marantz AV Receiver. This feature is not available in all countries. Visit <u>www.last.fm/hardware</u> to find out more.

About Napster

Napster is a monthly subscription music distribution service provided by Napster LLC. This service allows users to download and play pieces of music they want to hear on this unit. Before you can use Napster, you will need to visit the Napster website on your PC to create an account and register as a member. For details, access the following site:

http://www.napster.com/choose/index_default.html





Ŵ Listening to internet radio

Prepare for playback.

- ① Check the network environment, then turn on this unit's power (page 14 "Connecting to a home network (LAN)").
 - (2) If settings are required, make the "Network Connect." (Cr page 92).

GUI

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Press **NET/USB** twice to switch (NET/ USB) the input source to "NET/USB".

- **?** Press $\Delta \nabla$ to select "Internet Radio", then press **ENTER** or \triangleright . • Selecting "Internet Radio" in the "Source
- Select" menu, lets you directly select "Internet Radio".
- \checkmark Press $\triangle \nabla$ to select the item you want to play, then press ENTER or ⊳.
- **E** Repeat step 4 until the station list is displayed. The station list is displayed.

6 Press $\triangle \nabla$ to select the station, then press ENTER or \triangleright . \triangleright . Playback starts once buffering reaches "100%".

ø

• There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely.

Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted. Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted.

- "Server Full" or "Connection Down" is displayed if the station is busy or not broadcasting.
- On this unit, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with "." (period).
- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (Ppage 84). The default setting is "OFF".
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (mpage 97). Press $\Delta \nabla \triangleleft$ \triangleright to return to the original screen.
- When **STATUS** on the main unit is pressed, the display can be switched between the title name and radio station name.

35

Playing the last played Internet radio station

Simply press (to switch the input source to "Internet Radio" and play the last played radio station.



witches to "Internet Radio" and	DISP
d radio station plays.	



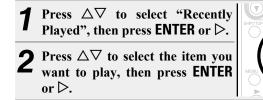
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When is pressed, the NET/USB-operation mode starts automatically (page 106).

Recently played internet radio stations

Recently played internet radio stations can be selected from "Recently Played".

Up to 20 stations stored in "Recently Played".





See overleaf



Advanced version

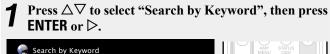
Basic version

Searching stations by keyword (Alphabetic strings)

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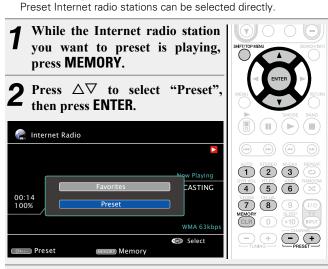
Aa

GUI





• For character input, see page 78.



Presetting internet radio stations

3 Press SHIFT/TOP MENU, then press PRESET +, PRESET – or 1 – 8 to select the desired preset number.

😭 Inte	rnet Radio		
00:14	снет	To store preset: Select A1-G8	A Playing CASTING
			WMA 63kbps
CH+/- Pre	set	MEMORY Memory	Select

Press MEMORY again to complete the setting. The Internet radio station is now preset.

Listening to preset internet radio stations





Registering Internet radio stations to preset channel buttons

- \bullet Up to three Internet radio stations can be registered to the P1-P3 buttons.
- Recommended Internet radio stations have already been registered to the **P1 P3** buttons.

While the internet radio station you want to preset is playing, press and hold P1 – P3 for at least 3 seconds. The internet radio station is now preset.

SOURCE	PURE	STANDBY	ON 1 PARTY	
0	(P1)	(P2)	P3	
		SAT	TV	

NOTE

If registered at a number that has already been preset, the previously registered setting is cleared.



1 – P3 stered









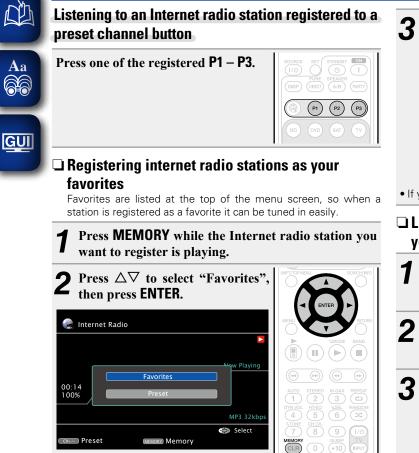


Advanced version



, then

Advanced version



		ect "Add". o station is reg	istered.		
	😪 Internet	t Radio			
	00:14	ls it register Add • •	ed?	Mow Playing MP3 32kbps	
	CH+/- Preset	MEMORY M		Select	
lf you do	not want to	o register the s	station, pr	ess ⊳.	
	ing to in avorites	ternet radi	o statio	ons regist	ered

NET/ USB

Press : to display the "Source Select" menu, then select "Favorites" (Press NET/USB to switch the remote control operating mode to "NET/USB".

3 Press $\triangle \nabla$ to select the Internet radio station, then press ENTER or \triangleright .

This unit automatically connects to the Internet and playback begins.

	1 Press i to display the "Source S select "Favorites" (page 22).	Select" menu,
	2 Press NET/USB to switch the remote control operating mode to "NET/USB".	CD THEF
	3 Press $\Delta \nabla$ to select the Internet radio station you want to clear, then press MEMORY .	MERIU OSD SHET/TOP MENU
d in	Press	MENL
M-XP	Favorites [2/3]	
AMP	Radio Algerienne Chaine 1 Is it deleted? Remove Cancel	AUTO STEREO AUTO STEREO DYNVOL HIEO AUTO SEREO AUTO STEREO AUTO ST
RCH/INFO	Columna Preset (Michaeler) Delete	7 8 9 MEMORY SLEEP CLR 0 +10 - + -
RETURN	 To cancel the operation without clearing the 	station, press 🗸



See overleaf



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Aa 66

GUI

P1 – P3		
SHIFT/TOP N	DISP (IFECI A/B P///TY)	9
SEARCH/IN		
	80 0V0 84T TV	
ENTER		
(Press and rele	C2 (23 (24) (24) (24) (24) (24) (24) (24) (24)	1
ENTER		
(Press and h		
RETURN		
1 – 8		
MEMOR		
TV I/ტ		
TV INPU	(7) (8) (9) (16) MEMORY (CLR) () (10) (10) (10) (10) (10) (10) (10)	

❑ Internet radio operation				
\square	Operation buttons	Function		
LEAVIN SEND O O		Last played internet radio station		
	P1 – P3	Preset channel $(1 - 3)$ selection		
DISP (FECT A/B (P/RTY)	SHIFT/TOP MENU	Preset channel block selection		
	SEARCH/INFO	Page search*1 / Character sort*2		
	$\Box \nabla \Box \nabla \Delta$	Cursor operation		
	ENTER (Press and release)	Enter		
AUPSAND MUTE AMP STATUS AMP CSD O	ENTER (Press and hold)	Stop		
	RETURN	Return		
		Stop		
	1 – 8	Preset channel selection		
	MEMORY	Favorites / Preset memory registration		
	TV I/ტ	TV power on/standby (Default : marantz)		
	TV INPUT	Switch TV input (Default : marantz)		
	PRESET +, -	Preset channel (A1 – G8) selection		

- *1 When the menu screen is displayed, press SEARCH/INFO, then press \triangleleft (previous page) or \triangleright (next page). To cancel, press $\Delta \nabla$ or **SEARCH/INFO** twice.
- *2 When the menu screen is displayed, press SEARCH/INFO twice, then press $\triangleleft \triangleright$ to select the first letter you want to search mode. • If it is not possible to search the list, "unsorted list." is displayed. To cancel, press $\Delta \nabla$ or **SEARCH/INFO**.

A

If the list is not in alphabetical order, you may not be able to perform a character sort.





38





Playing files stored on a computer

Use this procedure to play music files, image files or playlists.

Aa **1** Prepa

GUI

- Prepare for playback.
 Check the network environment of the previous of the previous
 - Check the network environment, then turn on this unit's power (<u>page 14</u> "Connecting to a home network (LAN)").
 - If settings are required, make the "Network Connect." (Page 92).
 - ③ Prepare the computer (CP Computer's operating instructions).
- **2** Press **:** to display the "Source Select" menu, then select "Media Server" (<u>Page 22</u>).
- **3** Press **NET/USB** to switch the remote control operating mode to "NET/USB".
- **4** Press $\triangle \nabla$ to select the server including the file to be played, then press **ENTER** or \triangleright .
- **5** Press $\Delta \nabla$ to select the search item or folder, then press ENTER or \triangleright .
- **6** Repeat step 4 until the file is displayed.

Press $\Delta \nabla$ to select the file, then press ENTER or \triangleright . Playback starts once buffering reaches "100%".

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- Connections to the required system and specific settings must be made in order to play music files (12) page 14).
- Before starting, you must launch the computer's server software and set the files as server contents. For details, see the operating instructions of your server software.
- Depending on the size of the still picture (JPEG) file, some time may be required for the file to be displayed.
- The order in which the tracks/files are displayed depends on the server specifications. If the tracks/ files are not displayed in alphabetical order due to the server specifications, searching by the first letter may not work properly.
- WMA Lossless files can be played when using a server supporting transcoding, such as Windows Media Player Ver. 11 or later.
- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (127 page 84). The default setting is "OFF".
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (<u>page 97</u>). Press △∇⊲
 ▷ to return to the original screen.
- Use **STATUS** on the main unit to switch between displaying the title name, artist name or album name.

39

Playing files that have been preset or registered in your favorites

Files can be preset, registered in your favorites and played using the same operations as for Internet radio stations (127) page 37).

NOTE

- Presettings are erased by overwriting them.
- When the operations described below is performed, the media server's database is updated and it may no longer be possible to play preset or favorite music files.
 - When you quit the media server and then restart it.
- When music files are deleted or added on the media server.

See overleaf

Basic version





Media server operation

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GUI

	Operation buttons	Function
LEAVIN SEND	· · ·	
0 0		Last played internet radio station
	P1 – P3	Preset channel (1 – 3) selection
DISP (NECT A/B (NATY)	SHIFT/TOP MENU	Preset channel block selection
	SEARCH/INFO	Page search*1 / Character sort*2
BD OVD 847 TV		Cursor operation /
		Auto search (cue, $\Delta \nabla$)
C22 C3 CAPP SCIENCS SUPPOSAD MUTE VOLUME AMP STATUS	ENTER (Press and release)	Enter / Pause
	ENTER (Press and hold)	Stop
	RETURN	Return
	11	Pause
	•	Playback / Pause
		Stop
1230		Auto search (cue)
$4 5 6 \times$	1 – 8	Preset channel selection
	REPEAT 🖒	Repeat playback
	RANDOM 🗙	Random playback
marantz RC014SR	MEMORY	Favorites / Preset memory
	IVIEIVIONT	registration
	TVI/d	TV power on/standby
		(Default : marantz)
	TV INPUT	Switch TV input (Default : marantz)
	PRESET +, -	Preset channel (A1 – G8) selection
	-	(Default : marantz) Switch TV input (Default : marantz)

• Repeat playback (mppage 104 "Repeat")

• Random playback (proge 104 "Random")

• Slide show playback (mppage 104 "Slide Show")

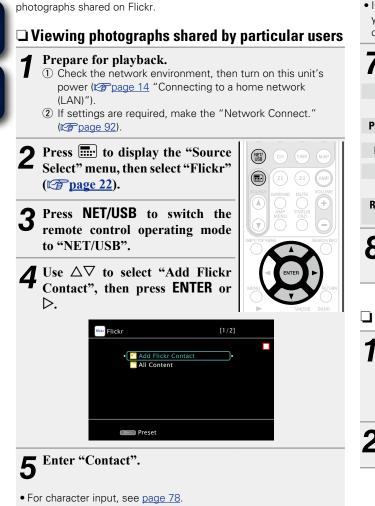
- $\mathbf{*}^1$ When the menu screen is displayed, press **SEARCH/INFO**, then press \triangleleft (previous page) or \triangleright (next page). To cancel, press $\Delta \nabla$ or **SEARCH/INFO** twice.
- *2 When the menu screen is displayed, press SEARCH/INFO twice, then press $\triangleleft \triangleright$ to select the first letter you want to search mode. • If it is not possible to search the list, "unsorted list." is displayed. To cancel, press $\Delta \nabla$ or **SEARCH/INFO**.

If the list is not in alphabetical order, you may not be able to perform a character sort.









Viewing photographs on the Flickr site

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You can view photographs shared by particular users, or all of the

6 After inputting the "Contact", then press ENTER. The "Contact" entered in step 4 is displayed.

• If the Contact you typed in cannot be found, "The Flickr Contact you entered could not be found" appears. Check and type in the correct Contact.

7 Press $\triangle \nabla$ to select the folder, and then press ENTER or \triangleright .

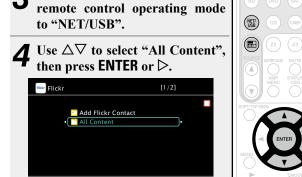
- FavoritesDisplays the favorite photographs of the specified
user.PhotostreamDisplays a list of shared photographs.
- **PhotoSets** Displays the folder (photograph album) list.
- **Contacts** Displays Contacts registered for Flickr Contact by a specified user.
- Remove this Contact Deletes a user from Flickr Contact.

8 Press $\Delta \nabla$ to select the file, and then press ENTER or \triangleright . The selected file is displayed.

Uviewing all photographs on Flickr

Prepare for playback.

- Check the network environment, then turn on this unit's power (page 14 "Connecting to a home network (LAN)").
 - If settings are required, make the "Network Connect." (<u>page 92</u>).
- **2** Press **...** to display the "Source Select" menu, then select "Flickr" (<u>page 22</u>).



Press NET/USB to switch the

5 Press $\triangle \nabla$ to select the folder, and then press ENTER or \triangleright .

- **Interestingness** Displays photographs that are popular from the number of user comments or number of times they are added as favorites.
 - **Recent** Displays the most recently added photographs.

Search by text Search for photographs by keyword.

6 Press $\Delta \nabla$ to select the file, and then press ENTER or \triangleright .

The selected file is displayed.

CH+/- Preset

NOTE

Depending on the file format, some photographs cannot be viewed.









e is displayed.

Flickr operation

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GUI	
	NEN

	Operation buttons	Function
LEAPN SEND O O		Last played internet radio station
	P1 – P3	Preset channel $(1 - 3)$ selection
DISP (NECT A/B (NAT)	SHIFT/TOP MENU	Preset channel block selection
	SEARCH/INFO	Page Search*
BD OVD SAT TV NET CD TAB NAPP		Cursor operation / Auto search (cue, $\Delta \nabla$)
	ENTER (Press and release)	Enter
	ENTER (Press and hold)	Stop
	RETURN	Return
RELAW		Stop
	1 – 8	Preset channel selection
	™ ।/ტ	TV power on/standby (Default : marantz)
456	TV INPUT	Switch TV input (Default : marantz)
	PRESET +, -	Preset channel (A1 – G8) selection
	• Slide show playback	(<u>Page 104</u> "Slide Show")

* When the menu screen is displayed, press SEARCH/INFO, then press \triangleleft (previous page) or \triangleright (next page). To cancel, press $\Delta \nabla$ or **SEARCH/INFO**.

How to listen to Last.fm on this unit

Last.fm radio is not available in all countries. Please check www.last. fm/hardware for more information. You'll also need a subscription. Get one today at www.last.fm/subscribe.

Prepare for playback.

- ① Check the network environment, then turn on this unit's power (page 14 "Connecting to a home network (LAN)").
- 2 If settings are required, make the "Network Connect." (CP page 92).

Press **...** to display the "Source Select" menu, then select "Last.fm" (Page 22).



∇ to select "I am new to Last.fm". Then press ENTER. Create an account in accordance with the

instructions on the screen.

Press NET/USB to switch the remote control operating mode to "NET/USB".

4 If you have a Last.fm account, press $\triangle \nabla$ to select "I have a Last.fm account". Then press **ENTER** or \triangleright .

CS Last.fm Account	
Username Password	•
OK	This service is curren ly available in limited countries.
Enter Username	(RETURN) Cancel

5 Use $\Delta \nabla \triangleright$ to enter your username and password.

• For character input, see page 78.

• The

Username: [Upper case characters] ABCDEFGHIJKLMNOPQRSTUVWXYZ

6

[Lower case characters]

abcdefghijklmnopqrstuvwxyz

[Symbols] - _

[Upper case characters]

[Numbers] 0123456789

Password:

ABCDEFGHIJKLMNOPQRSTUVWXYZ

[Lower case characters]

abcdefghijklmnopqrstuvwxyz

[Symbols]

- ! **" # \$** % & ' () * + , . / : ; < = > ? @ [\] ^ ` { | } ~
- [Numbers] 0123456789 (Space)

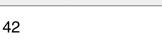


Popular Stations Play popular artists and tags in your area.

You Recent Stations	Play your recent stations.
Your stations	You can play tracks from the following personalised stations ("Your Recommended Radio", "Your Library", "Your Friends' Radio", "Your Top Artists").

Search Stations You can search station by Artist or Tag.





(►)

Advanced version

Basic version

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GU

8 Use $\Delta \nabla$ to select a station, and press ENTER or \blacktriangleright to start playback.

Playback starts and the following screen appears.

CS rock Radio	
76.5	
	Now Playing
🔨 📰 🖉 🔊 Song	
00:03 📃 Artist	
100% 💽 Album	
	MP3 128kbps
👁 Skip	Select
	👁 Menu

9 Menu items on playback screen.

- Love this track Loving tracks improves your Last.fm recommendations, and you can optionally share them on popular social networks.
- Ban this track If you ban a track, we won't play it again. You can undo this on the Last.fm website.
- Scrobbling Scrobbling sends the tracks you played to your Last.fm account. You can see charts of the music you've been listening to, get recommendations for new music and events in your area and share your listening tastes with your friends. You can turn this service on or off using this option. The more you scrobble, the better your recommendations will become.



NOTE

- The password should be no longer than 99 characters.
- Press **RETURN** to cancel the input. When "Cancel input?" is displayed, select "Yes", then press **ENTER**.

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- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (137 page 84). The default setting is "OFF".
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (mpage 97). Press Δ∇
 ▷ to return to the original screen.
- Use **STATUS** on the main unit to switch between displaying the title name, artist name or album name.

Last.fm operation

marantz

	Operation buttons	Function
RN SEND	SEARCH/INFO	Page Search *
SET STANDBY CAN DELES SPEAKER A/B PANTY		Cursor operation / Auto search (cue, $ abla$)
PI P2 P3 D40 847 TV	ENTER (Press and release)	Enter
0 00 00 2 2 2 0	ENTER (Press and hold)	Stop
	AMP MENU	Amp menu
	RETURN	Return
SEVADULINED	•	Playback
		Stop
T PETUAN		Auto search (cue)
	TV I/ტ	TV power on/standby (Default : marantz)
TEREO M-DAX REPEAT	TV INPUT	Switch TV input (Default : marantz)
INTER VIEL RANDOM 5 6 × 1414 8 9 EP		u screen is displayed, press pen press ≤1 (previous page) or

When the menu screen is displayed, press
 SEARCH/INFO, then press
 (previous page) or
 (next page).
 To cancel, press △▽ or SEARCH/INFO.

 A press △▽ or SEARCH/INFO.

Basic version

Advanced version













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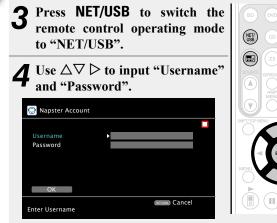
GUI

Listening to Napster

Prepare for playback.

- Check the network environment, then turn on this unit's power (<u>page 14</u> "Connecting to a home network (LAN)").
- ② If settings are required, make the "Network Connect." (<u>page 92</u>).

2 Press **in:** to display the "Source Select" menu, then select "Napster" (<u>page 22</u>).



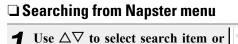
• For character input, see page 78

5 After inputting the "Username" and "Password", select "OK", then press ENTER.

If the "Username" and "Password" match, the top menu for Napster is displayed.

NOTE

- The password should be no longer than 99 characters.
- Press RETURN to cancel the input. When "Cancel input?" is displayed, select "Yes", then press ENTER.



folder, then press **ENTER** or \triangleright .

2 Repeat step 1 until the track is displayed.

3 Use $\Delta \nabla$ to select the track item, then press ENTER or \triangleright .

Entering a character sort for the track you want to listen to



• You can search by artist name, album name or track name

Use $\Delta \nabla$ to select the search item, then press ENTER.

Input the characters, then press OK.



• For character input, see page 78.

Registering tracks in my Napster library

 Press ▷ while the track you wish to register is playing.
 Select "Add to my library", then press ENTER or ▷. The track is entered in the Library.



Listening to tracks registered in my Napster library. **1** Use $\Delta \nabla$ to select "My Napster Library", then press ENTER or

2 Use $\Delta \nabla$ to select the information or track, then press ENTER.



 \triangleright .

- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (127 page 84). The default setting is "OFF".
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "NET/USB" (☞ page 97). Press △∇
 ▷ to return to the original screen.
- Use **STATUS** on the main unit to switch between displaying the title name, artist name or album name.

🕼 <u>See overleaf</u>

Advanced version Infv

Basic version





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Napster operation

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GUI

	Operation buttons	Function		
LEARN SEND O O		Last played internet radio station		
	P1 – P3	Preset channel (1 – 3) selection		
DISP (NECT) A/B (PARTY)	SHIFT/TOP MENU	Preset channel block selection		
	SEARCH/INFO	Search menu / Page search*		
ET CD (185 (1997)	${\triangleleft} {\triangleleft} {\triangleleft} {\triangleleft}$	Cursor operation / Auto search (cue, ムマ)		
	ENTER (Press and release)	Enter		
	ENTER (Press and hold)	Stop		
ENTER	RETURN	Return		
	•	Playback		
		Stop		
•••		Auto search (cue)		
	1 – 8	Preset channel selection		
4 5 6 🗙	REPEAT 🖒	Repeat playback		
	RANDOM 🗙	Random playback		
- + Preset marantz RC014SR	TV I/ტ	TV power on/standby (Default : marantz)		
	TV INPUT	Switch TV input (Default : marantz)		
	PRESET +, -	Preset channel (A1 – G8) selection		

- Repeat playback (mppage 104 "Repeat")
- Random playback (* page 104 "Random")









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 (movie, music, etc.) or according to your liking.

Advanced version

	AUTO STEREO M-DAX REPEAT
D	Various types of surround sound can be selected to match the source being played back. Press SURROUND until the desired surround mode is reached.
)	This mode detects the type of input digital signal, and automatically selects the corresponding mode for playback.
)	Switches the listening mode to Stereo mode.
)	Switches the listening mode to Direct or Pure Direct mode. In DIRECT mode, the audio is played back exactly how it was recorded.

Press SURROUND, AUTO, STEREO or PURE DIRECT to select a

• Each time SURROUND, AUTO, STEREO or PURE DIRECT is pressed, the listening

Selecting a listening mode

1 Play the selected device ($\bigcirc page 24 - 27$).

When PURE DIRECT mode is selected, the PURE DIRECT indicator on the unit lights.

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listening mode.

mode is switched.

5 L

SURROUND

AUTO

1

STEREO 2

PURE

DIRECT

The listening mode can also be selected in the same way for the SURROUND MODE on the main unit.

AUTO and **STEREO** are effective only when the remote control unit is in AMP-operation mode.



DIRECT

SURROUM

Basic version

Information

🗆 Listening mode

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GU

- The following listening modes can be selected using the SURROUND, AUTO, STEREO and PURE DIRECT buttons.
- Adjust the sound field effect with the menu "Surr.Parameter" (127 page 81) to enjoy your favorite sound mode.

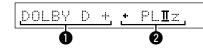
9	Operation button		Input signal	Listening mode
		2-	-channel *1	AUTO*2 STEREO DOLBY PLIIx Movie *3 DOLBY PLII Movie *3 DOLBY PLII Music *3 DOLBY PLII Music *3 DOLBY PLII Game *3 DOLBY PLII Game *3 DOLBY Pro Logic *3 DTS NEO:6 Cinema *3 DTS NEO:6 Music *3 DOLBY PLIIz Height *3 MULTI CH STEREO
		M	lulti-channel	VIRTUAL AUTO*2 STEREO
	SURROUND	*	Dolby Digital	DOLBY DIGITAL DOLBY DIGITAL EX DOLBY DIGITAL + PLIIx Movie DOLBY DIGITAL + PLIIx Music DOLBY DIGITAL + PLIIz
	\bigcirc		Dolby TrueHD	DOLBY TrueHD DOLBY TrueHD + EX DOLBY TrueHD + PLIIx Movie DOLBY TrueHD + PLIIx Music
			Dolby Digital Plus	DOLBY TrueHD + PLIIz DOLBY DIGITAL Plus DOLBY DIGITAL Plus + EX DOLBY DIGITAL Plus + PLIIx Movie DOLBY DIGITAL Plus + PLIIx Music DOLBY DIGITAL Plus + PLIIz
			DTS	DTS SURROUND DTS ES DSCRT 6.1 DTS ES MTRX 6.1 DTS 96/24 DTS 96 ES MTRX DTS ES DSCRT DTS + NEO:6 DTS + PLIIx Movie DTS + PLIIx Music DTS + PLIIz

Operation button	Input signal	Listening mode
SURROUND	DTS-HD / DTS Express	DTS-HD HI RES DTS-HD MSTR DTS Express DTS-HD + NEO:6 DTS-HD + PLIIx Movie DTS-HD + PLIIx Music DTS-HD + PLIIz
\bigcirc	PCM multi- channel Multi-channel	MULTI CH IN MULTI CH IN 7.1 MULTI IN + Dolby EX MULTI IN + PLIIx Movie MULTI IN + PLIIx Music MULTI IN + PLIIz MULTI CH STEREO
AUTO	*4 All	VIRTUAL AUTO *2
STEREO	All	STEREO
DIRECT	All	DIRECT PURE DIRECT AUTO *2

47

- *1 2-channel also includes analog input.
- *2 When AUTO mode is selected, the surround mode that is compatible with the input signal is used for playback.
- *3 This mode plays back 2-channel source in 5.1 or 7.1-channel playback. It cannot be selected when headphones are used, or when only front speakers are used.
- *4 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" (page 122).

Views on the TV screen or display



• Shows a decoder to be used.

- \bullet A DOLBY DIGITAL Plus decoder is displayed as "DOLBY D +".
- **2** Shows a decoder that creates sound output from the surround back speakers.
- "+ PLIIz" indicates the front height sound from front height speakers.

See overleaf



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GUI

Description of listening mode types

Dolby listening mode

Listening mode type Description	
DOLBY PLIIx*1	This mode can be selected when a Dolby Pro Logic IIx decoder is used to play back 2-channel source in 6.1/7.1-channel surround sound including the surround back channel. By adding the surround back channel, a stronger surround feeling is obtained compared to Dolby Pro Logic II. There are three playback modes: "Movie" mode that is optimized for movie playback, "Music" mode that is optimized for music playback, and "Game" mode that is optimized for game play.
DOLBY PLII	This mode can be selected when a Dolby Pro Logic II decoder is used to play back 2-channel source in 5.1-channel surround sound with a natural, realistic feel.
DOLBY Pro Logic	This mode can be selected when a DOLBY Pro Logic decoder is used to play 2-channel source in 4.1-channel surround sound (Left/Center/Right/Surround Mono).
DOLBY PLIIz*2	This mode can be selected when a Dolby Pro Logic IIz decoder is used to play back 2-channel source in 7.1-channel surround sound with added front height channel. By adding a front height channel, the vertical expression is emphasized, improving the three-dimensionality of the sound.
DOLBY DIGITAL	This mode can be selected when playing sources recorded with Dolby Digital.
DOLBY DIGITAL EX*1	This mode improves the depth, dimension, and expressiveness of the sound stage by sound field playback including surround back channels.
DOLBY TrueHD	This mode can be selected when playing sources recorded in Dolby TrueHD.
DOLBY DIGITAL Plus	This mode can be selected when playing sources recorded with Dolby Digital Plus.

*1 This can be selected when "Speaker Config." – "S.Back" is not set to "None".

*2 This can be selected when "Speaker Config." - "F.Height" is not set to "None".

DTS listening mode

Listening mode type	Description
DTS NEO:6	This mode can be selected when a DTS NEO:6 decoder is used to play back
	2-channel source in 6.1/7.1-channel surround sound including the surround back channel
	There is a "Cinema" mode optimized for movie playback, and a "Music" mode optimized for music playback.
DTS SURROUND	This mode can be selected when playing sources recorded in DTS.
DTS ES DSCRT6.1*	This mode can be selected when playing sources recorded in DTS-ES.
	Provides optimum playback of DTS-ES Discrete signals using surround back.
DTS ES MTRX6.1*	This mode can be selected when playing sources recorded in DTS-ES. Surround back channel data encoded in DTS-ES Matrix recording software is played from the surround back channel.
DTS 96/24	This mode can be selected when playing sources recorded in DTS 96/24.
DTS-HD	This mode can be selected when playing sources recorded in DTS-HD.
DTS Express	This mode can be selected when playing sources recorded in DTS Express.

* This can be selected when "Speaker Config." - "S.Back" is not set to "None".

PCM multi-channel listening mode

Listening mode type	Description
MULTI CH IN	This mode can be selected when playing multi-channel PCM sources .

© See overleaf

Information

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GUI

marantz original listening mode

	Listening mode type	Description
	MULTI CH STEREO	This mode is for enjoying stereo sound from all speakers.
L		The same sound as that from the front speakers (L/R) is played back at the
		same level from the surround speakers (L/R) and surround back speakers (L/R).
	VIRTUAL	This mode is for enjoying surround effects using only the front speakers or
		headphones.
	AUTO	In this mode, the type of digital signal input, such as Dolby Digital, Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX, DTS, DTS-HD, DTS-ES, PCM (multi-channel) is detected, and the playback mode switches automatically to
		the corresponding mode.
		If the input signal is analog or PCM (2-channel), stereo playback is used.

STEREO listening mode

Listening mode type	Description
STEREO	 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 audio and are played.

Direct listening mode

Listening mode type	Description							
DIRECT	This mode plays back tracks at high sound quality without passing through the sound quality adjustment circuits.							
	 Surround back signals or front height signals are not created. 							
PURE DIRECT	This mode plays back tracks at the closest to the original sound quality. Turn the display of the amplifier off to stop the analogue video circuit. This suppresses the source of noise that affects sound quality. • Surround back signals or front height signals are not created.							
In Direct listening mode, the following items cannot be adjusted.								
• Tone (☞ page 82) • MultEQ [®] (☞ page 82) • Dynamic Volume [®] (☞ page 83) • M-DAX (☞ page 84)								

NOTE

- Video signals are only output when HDMI signals are played in the PURE DIRECT mode.
- When in the PURE DIRECT mode, the menu screen is not displayed.



V

Advanced version

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

- Speaker installation/connection (Advanced) 2 page 51
- Connections (Advanced connection) 2 page 61
- Playback (Advanced operation) 2 page 62
- Playback in ZONE2 (Separate room) 2 page 73
- How to make detailed settings mage 75
- Other settings page 105
- Operating the connected devices by remote control unit page 106



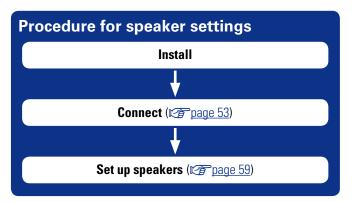
Speaker installation/connection (Advanced)

This section provides the installation, connection, and setup methods of speaker systems other than the 7.1-channel system with surround back speakers. For the speaker installation, connection, and setup methods of the 7.1-channel system with surround back speakers, see page 4 "Setup Wizard". Use 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.

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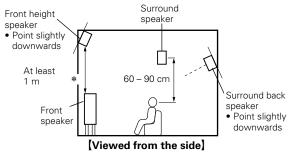


Install

This unit is compatible with Dolby Pro Logic IIz (Ppage 125), which offers an even wider and deeper surround sensation. When using Dolby Pro Logic IIz, install front height speakers.

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

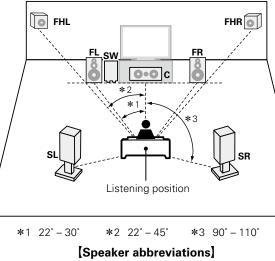


* Recommended for Dolby Pro Logic IIz

NOTE

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

When 7.1ch (Front height speaker) installed



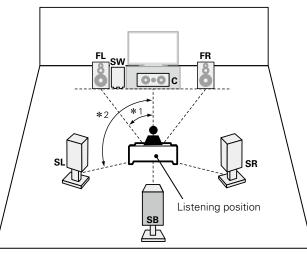
SL

- FL Front speaker (L)
- **FR** Front speaker (R)
- С Center speaker
- SW Subwoofer
- Surround speaker (L) SR Surround speaker (R) Front height speaker (L) FHL
- FHR Front height speaker (R)

See overleaf



When 6.1ch (Surround back speaker) installed



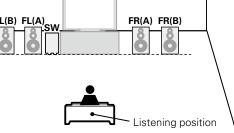
FR FL <u>sw</u> 8 8 0 0•0 c *1 *2 SL SR Listening position

When 5.1ch installed

*****1 22° – 30° *****2 120°

When Front A/B speakers installed FL(B) FL(A) FR(A) FR(B) 0

P



*****1 22° – 30° *****2 90° – 110°

[Speaker abbreviations]

- FL Front speaker (L) **SL** Surround speaker (L) SB
- FR Front speaker (R)
- С Center speaker
- SW Subwoofer

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GUI

SR Surround speaker (R) Surround back speaker Install



Connect

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GUI

- For the method of connecting 7.1-channel system with surround back speakers, see <u>page 6</u> <u>"Connecting the speakers"</u>.
- For the method of connecting the TV, see and page 3 "Connect this unit to the television using an HDMI cable (sold separately)".

7.1-channel (Front height speaker) connection

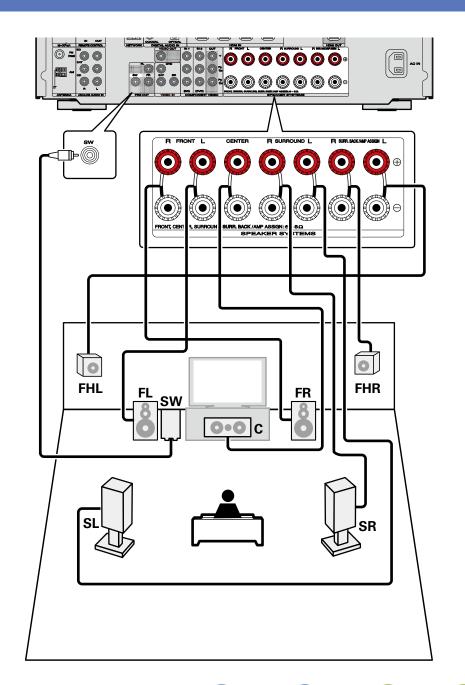
The illustration on the right shows a connection example for performing 7.1-channel playback using the front height speakers.

If you connect the surround back and front height speakers before you start playback, the audio is played back by automatically switching the speakers in accordance with the surround mode or input signals. To perform 7.1-channel playback using the front height speaker, set "Amp Assign" to "F.HEIGHT" in steps 3 and 4 for "Set up "Amp Assign"" (Toppage 59).

NOTE

- For speaker cable connections, see A page 6 "Connecting the speakers".
- 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 (page 126 "Protection Circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock (When the Setup wizard is running, follow the instructions in the Setup wizard screen for making connections.).
- Use speakers with the speaker impedances shown below.

Speaker terminals	Speaker impedance	
FRONT		
CENTER	6-80	
SURROUND	0-812	
SURR. BACK / AMP ASSIGN		





Basic version

Advanced version

Information

Aa

GUI

6.1-channel (Surround back speaker) connection

If using only one surround back speaker (with a 6.1-channel connection), connect to the "L" side of the SURR. BACK/AMP ASSIGN terminal.

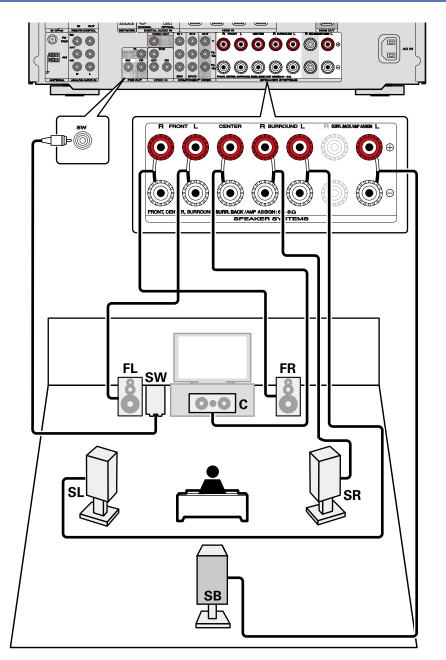
For speaker settings in this case, see "When 6.1ch (Surround back speaker) installed" (1 page 52).

To perform 6.1-channel playback using the surround back speaker, set "Amp Assign" to "NORMAL" in steps 3 and 4 for "Set up "Amp Assign"" (1) page 59).

Also use the "Speaker Config." setting (12 page 87) to set "S.Back" to "1spkr".

NOTE

- For speaker cable connections, see A page 6 "Connecting the speakers".
- For speaker impedance, see page 53.





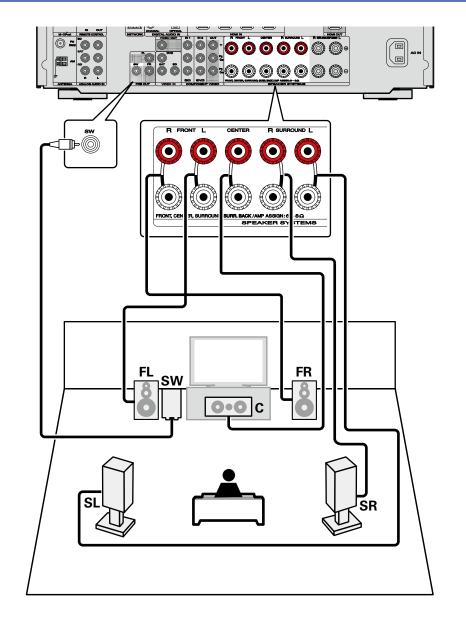
5.1-channel connection

To perform 5.1-channel playback, set "Amp Assign" to "NORMAL" in steps 3 and 4 for "Set up "Amp Assign"" (137 page 59).

Aa For spea

- For speaker cable connections, see 🚑 page 6 "Connecting the speakers".
- For speaker impedance, see page 53.

GUI



Front A/B connection

You can connect a second set of speakers to this unit and use them for playback. In this case, perform the settings using the **SPEAKER A/B** ($\[mathbb{Cpr}]_{page 23}$ "Set the front speakers to be used").

	LEARN	SEND
SOURC (1/0) (DISP	PURE	STANDBY ON () SPEAKER A/B PARTY

GUI

Aa ම

For surround playback of a multichannel source, if you connect the center speaker, surround speakers and subwoofers, 5.1-channel playback is available.

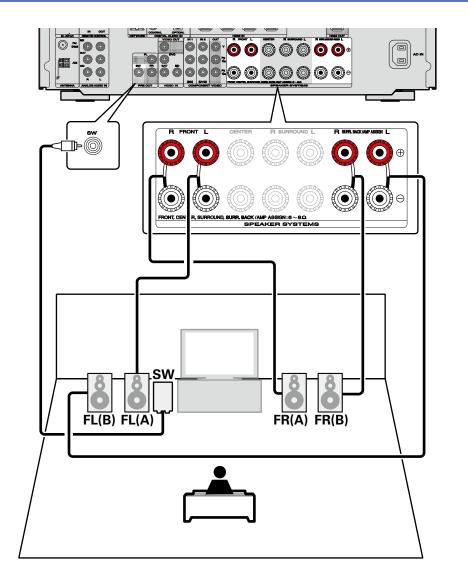
Front speakers can be used separately, depending on the speaker's specifications or playback source such as front speakers (A) for multichannel playback and front speakers (B) for 2-channel playback.

NOTE

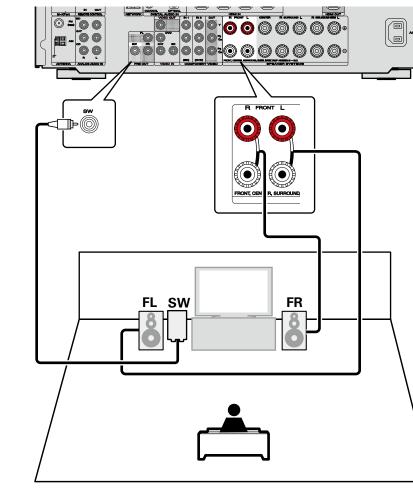
ø

- For speaker cable connections, see A page 6 "Connecting the speakers".
- For speaker impedance, see page 53.

• When using the A front speakers and B front speakers simultaneously, make sure you check the impedance of the connected speakers (197 page 53).



Advanced version



NOTE

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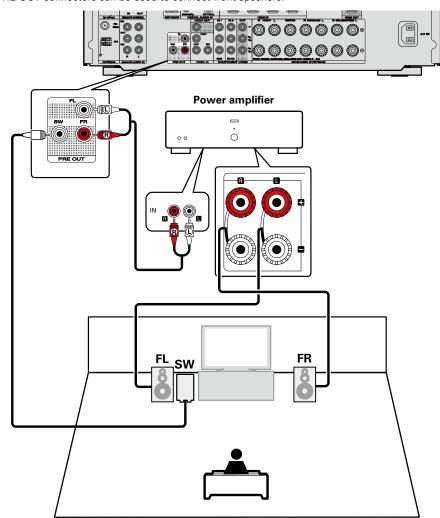
Aa

GUI

2.1-channel connection

- For speaker cable connections, see A page 6 "Connecting the speakers".
- For speaker impedance, see page 53.

The PRE OUT connectors can be used to connect front speakers.



P

57

Connect

Advanced version

Bi-Amp connection

You can use the front speakers via the 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" to "SPKR-C" in steps 3 and 4 for "Set up "Amp Assign"" (1) page 59).

GUI

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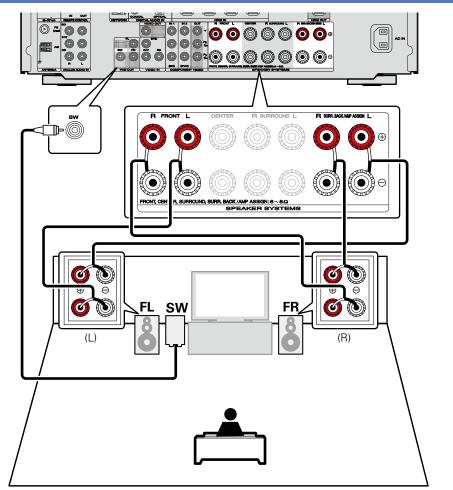
Aa ම

For surround playback of a multichannel source, if you connect the center speaker, surround speakers and subwoofers, 5.1-channel playback is available.

NOTE

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- For speaker cable connections, see A page 6 "Connecting the speakers".
- For speaker impedance, see page 53.
- Use speakers compatible with bi-amp connections.
- When making bi-amp connections, be sure to remove the short-circuiting plate or wire between the speaker's woofer and tweeter terminals.



Set up speakers

First install and connect the speakers to this unit.

Before Auto Setup measurement, the settings shown below can be made.

Ď

Amp Assign </ NORMAL >

[RETURN] Return

See overleaf

Д

Aa • Changing the amplifier assignment (Amp Assign) The signal output from the SURR.BACK/AMP ASSIGN speaker terminal of this unit can be switched to match your speaker environment (grage 59 "Set up "Amp Assign""). • Setting the channels to be used (Channel Select) If channels that are not to be used are set in advance, measurement for the set channels is skipped, and measuring time can be reduced. You can also change the number of surround back speakers () advance to be used are set in advance. GUI "Set up "Channel Select""). Connect the setup microphone. 4 2 Set up the Set up "Amp Assign" remote control unit Use $\Delta \nabla$ to select "Amp Assign", and then press °°°°© ENTER. **Set up the operation mode** Press AMP to set the remote control unit to AMP-► 🔞 ► Audyssey Auto Setup MultEO operation mode. Preparation Set the following items if necessary. When the setup microphone is connected, the following screen is Amp Assig displayed. Channel Select Auto Setup Start 💽 🕨 Audyssey Auto Setup MultEQ [ENTER] Enter [RETURN] Cancel Connect the speakers and place then according Press AMP to the recommendations in the manual. ► 🙀 ► Amp Assign Next MultEO

Select "Next", and then press

3

ENTER.

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 a page 4 "Setup Wizard".

59

[ENTER] Enter [RETURN] Cancel

Set up speakers

Ď

Aa

GUI

NORMAL	Select the "NORMAL" setting to perform 7.1-channel playback using the surround back speakers.
ZONE2	Select the "ZONE2" setting to assign the unit's built-in power amplifier for ZONE2 and output the audio in stereo.
SPKR-C	Select the "SPKR-C" setting to connect the front speakers via the bi-amp connection.
Front B	Select the "Front B" setting to use the second set of front speakers for playback.
F.HEIGHT	Select the "F.HEIGHT" setting to use the front height speaker for playback.
6 Press RE	ETURN to exit the "Amp Assign" setting.

5 Use $\triangleleft \triangleright$ to select the configuration of the connected

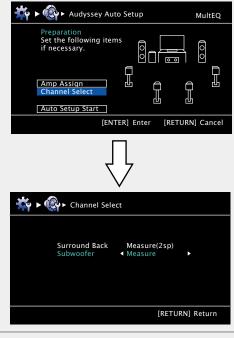
speakers.

configuration of the connected

7



Use $\Delta \nabla$ to select "Channel Select", and then press ENTER.



8 Use $\Delta \nabla$ to select a channel.

Surround Select the number of surround back speakers to be Back used. In this case, go to step 9. • "Surround Back" can be set when "Amp Assign" is set to "NORMAL". Subwoofer Select for no subwoofer to be used. In this case, go to step 10.

9 Use $\triangleleft \triangleright$ to set whether or not a surround back channel is measured.								
Measure (2 sp)	Set for measuring two surround back speakers.							
Measure (1 sp)	Set for measuring a surround back speaker.							
Skip	Set for no measuring of a surround back speaker.							
IV is mo	10 Use $\triangleleft \triangleright$ to set whether or not a subwoofer channel is measured. Measure Set for measuring a subwoofer.							

Set for no measuring of a subwoofer. Skip

1 Press **RETURN**.

Proceed to page 17 **STEP1 Preparation** > step 6.

NOTE

After performing Audyssey[®] Auto Setup, do not change the speaker connections or subwoofer volume. In event of a change, perform Audyssey[®] Auto Setup again.

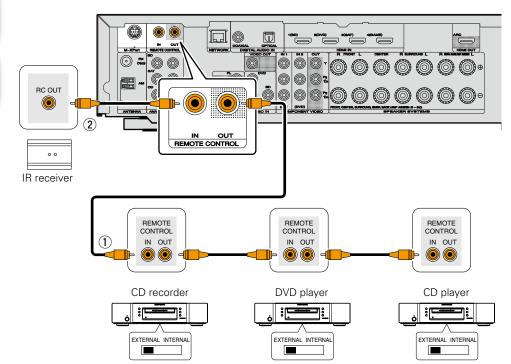
Basic version

Aa

GUI

Connections (Advanced connection)





- ① You can control other marantz products through this unit with the remote control unit by connecting the REMOTE CONTROL connectors on each unit.
 - The signal transmitted from the remote control unit is received by the remote sensor on this unit. Then the signal is sent to the connected device through REMOTE CONTROL connector. Therefore you need to aim the remote control only at the this unit.
 - Set the remote control switch located on the rear panel of the connected audio component to "EXTERNAL" or "EXT." to use this feature.
 - If a marantz power amplifier (excluding certain models) is connected to any of these connectors, the power of the power amplifier switches to on/standby in conjunction with the **ON/STANDBY** button of the this unit.
- ② Whenever external infrared sensors or similar devices are connected to REMOTE CONTROL IN connector of the this unit, be sure to always disable operation of the infrared sensor on the this unit (<u>page 105</u> "Remote control settings").

NOTE

Be sure to set to "enable" when external infrared sensors or similar devices are not connected. Otherwise, the unit will be unable to receive remote control commands.

Advanced version

Aa

GUI

Playback (Advanced operation)

Settings (page 15)

Playback (Basic operation) (2 page 22)

Selecting a listening mode (Surround mode) (<u>Page 46</u>)

- □ HDMI control function (mp page 62)
- □ Sleep timer function (2 page 63)
- Adjusting the volume of the speakers
 (
 page 64)
- □ AirPlay (™ page 65)
- □ Party mode function (mpage 66)
- □ Zone Management function (☞ page 67)
- □ Operating a media controller to play music and still pictures (mp page 68)
- U Web control function (page 69)
- **Dual backup memory function** (<u>page 71</u>)
- □ Panel lock function (mpage 71)
- □ Various memory functions (12 page 72)

Convenient functions

HDMI control function

If you connect the unit and an HDMI control function compatible TV or player with an HDMI cable and then enable the HDMI control function setting on each device, the devices will be able to control each other.

Operations possible by HDMI control

- 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.
- If you switch the input source of the unit to "TV", you can play TV audio with this unit (page 7 "About ARC (Audio Return Channel) function").
- When "HDMI Control" (Page 90) in the menu is set to "ON", signals input to the HDMI input connector are output to the television or other device connected to the HDMI output connector, even if the power of this unit is in standby (passthrough function).

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- To play the audio of a TV that does not support the ARC function with the unit, connect the TV with an optical digital connection.
- To use the pass-through function, connect an HDMI connection device that is compatible with HDMI control.

Setting procedure

- **1** Set the HDMI output connector corresponding with
- the HDMI control function.

Set "HDMI Control" (page 90) to "ON".

				on	for	all	the	devices	connected k)у
2	HDM	I ca	ble.							

- **3** Set the HDMI control function for all devices connected by HDMI cable.
- Please consult the operating instructions for the connected devices to check the settings.

• Carry out steps 2 and 3 should any of the devices 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.

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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" (mpage 90) set to "ON"?
- Is "P.Off Control" (page 90) set to "All" or "Video"?
- Are the HDMI control function settings of all devices correct?

🕼 <u>See overleaf</u>







NOTE

Aa

GUI

- 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 "P.Off Control" on the menu is set to "OFF" (Propage 90). 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" (rapage 101).
- 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 101) setting has changed.
- There is a change to the connection between the devices and the HDMI, or an increase in devices.

Sleep timer function

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

This is convenient for playing sources while going to sleep.

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

9 Press **SLEEP** and display the Z time vou want to set. The "SLEEP" indicator on the display lights. • The time switches as shown below each

time **SLEEP** is pressed.

To confirm the countdown time before putting the unit to sleep

Press SLEEP.

"Sleep : *min" appears on the display. * Countdown time

To cancel the sleep timer

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

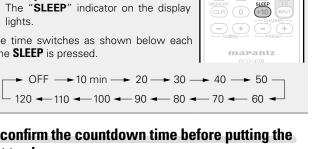
<u>s</u>

- The sleep timer setting is canceled if this unit's power is set to standby.
- The sleep timer function can be set separately for the different zones (page 74 "Sleep timer function").





Basic version









Convenient functions



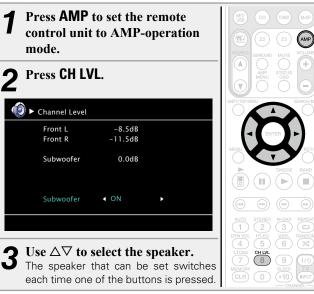
Aa

GUI

Adjusting the volume of the speakers

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

Adjusting the volume of the different speakers



4 Use $\triangleleft \triangleright$ to adjust the volume.

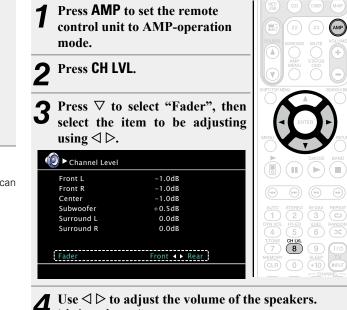
• You can directly turn "OFF" the subwoofer outputs during 2-channel playback in DIRECT or STEREO mode. Select "Subwoofer" and use $\triangleleft \triangleright$ to select "ON" or "OFF".

-8.5d	3	
-11.5d	3	
r 🖪 OFF		
	-11.5dl	-8.5dB -11.5dB

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).



$(\triangleleft : front, \triangleright: rear)$

(

• 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.





AirPlav

Aa

60

GUI

- Use the Apple Remote app* for iPhone, iPod touch and iPad to control iTunes from any room in your home.
- * Available as a free download from the App Store.

□ Setting procedure

anywhere in your home.

Install iTunes 10, or later, on a Mac or Windows PC that is connected to the same network as this unit.

Enjoy music from your iTunes library with marantz quality sound

Turn this unit ON.

Set "Network Standby" to "ON" for this unit.

NOTE

When "Network Standby" is set to "ON", the unit consumes more standby power.

2 Launch iTunes and click the AirPlay icon displayed in the lower right of the window and select this unit from the list. . .

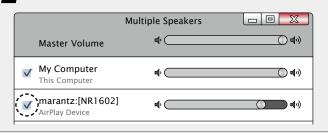
 <u> </u>	
i 🗖 j 🖓	◀
· /	

Choose a song and click play in iTunes. The music will stream to this unit.

□ Multiple Speakers

You can easily stream music from iTunes to multiple speakers in your home.

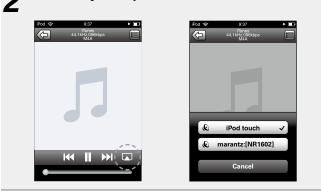
- Click the AirPlay icon **and select** "Multiple Speakers" from the list.
- Check the speakers you want to use.



□ Streaming music stored in iPhone, iPod touch, or iPad directly to the unit

If you update your "iPhone/iPod touch/iPad" to iOS 4.2.1 or later, you can stream music stored in your "iPhone/iPod touch/iPad" directly to this unit.

1	Tap the AirPlay icon 🗻.
9	Select the speaker you want to use.



Remote operations

You can use your marantz remote control to play and pause iTunes, as well as skip to next and previous tracks.

Open Preferences in iTunes, and click "Devices".



D) iTunes						•				X
J	General	Playback	Sharing	Store	Parental Control	Device	s Adv	anced			
		Devio	e backups			`~_·					
								Delete	e Backup		
	-										
			revent iPod /arn when		es, and iPads from s				ill be chang	jed	
	_		- \		akers connected wit						
					trol from remote sp iPhone and iPad Re		Forg	et All R	emotes		
	-										
					Reset Sync H	listory					
(?								ОК	Canc	el

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- is displayed on the menu screen while AirPlay is being operated.
- Source input will be switched to "NET/USB when AirPlay playback is started.
- You can stop AirPlay playback by pressing the \triangleleft or choosing other input source.
- To see song and artist names together, press STATUS on the main unit.
- For information about how to use iTunes, also see the Help for iTunes.
- The screen may differ depending on the OS and software versions.









Basic version

Advanced version

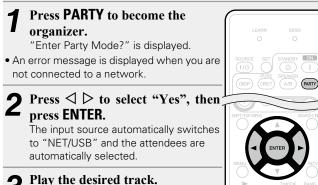
D **Party mode function**

GUI

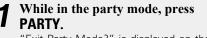
The same network audio (Internet radio, Media server or iPod DIRECT) can be played on multiple marantz products equipped with the Party Mode function and connected in a network.

The party mode consists of one organizer and up to four attendees. When one unit starts the party mode as the organizer, up to four devices on which the party mode function is activated automatically participate in the party as attendees. "Party Mode" (page 94) must be set to "ON" ahead of time in order to use the party mode function.

U Starting the party mode as the organizer



Canceling the party mode



"Exit Party Mode?" is displayed on the menu screen.

Press $\triangleleft \triangleright$ to select "Yes", then press ENTER.

"Power off attendees component?" is displayed.

Press $\triangleleft \triangleright$ to select "Yes" or 3 "No", then press ENTER.

- The power of the attendees is turned off and the party Yes mode is canceled.
- No The party mode is canceled without turning off the power of the attendees.

Participating in the party mode as an attendee

- When the organizer starts the party mode, up to four attendees are selected automatically. No operation is required.
- The input source automatically switches to "NET/USB" and the same network audio as on the organizer is played.
- If there are fewer than four attendees, a device can join the party mode after it has started. To participate in the party mode, perform the operation described below.

Press PARTY.

"Enter Party Mode?" is displayed.

• An error message is displayed when you are not connected to a network.

Press $\triangleleft \triangleright$ to select "Yes", then press ENTER.

When you start the party mode, the monitor of the attendee (child) displays the network menu screen for the organizer (parent).





The party mode function can only be used on a combination of marantz devices that are equipped with the party mode function.

[1/3]

(PARTY) ATTENDEE

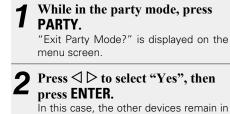
Canceling the party mode

the party mode.

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😡 Favorites 🥐 Internet Radio

h Media Server





Basic version

Advanced version

Information

"Flickr", "Last.fm", "Napster" and "USB" are not available in the Party Mode.

There can only be one organizer in the network. To form a new party mode, first cancel the current party mode.













<u>A</u>

Aa

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GUI

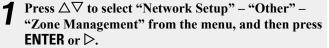
Zone Management function

The status of devices connected to the same network can be displayed. Additionally, network menu browsers and volume controls can be performed via the network for the connected devices.

This is useful when playing back network services of a device located in a separate room.

Only devices compatible with the Zone Management function can be operated.

With the Zone Management function, the network menu screen and playback screen of the target device to be controlled are displayed but playback with this unit is not possible. If you also want to play the same music as the other device, use the Party Mode function.





2 Press $\Delta \nabla$ to select the Friendly Name of the device, and then press ENTER or \triangleright .



• Displays up to a maximum of 10 marantz products connected on the same network.

B Press $\Delta \nabla$ to select "Device Control", and then press ENTER.

When the device control mode is started, the network menu of the connected device is displayed on this unit's television screen.

∛	 ••••••••••••••••••••••••••••••••••••		
	Model	NR16	02
	Power	On	
	Select Source	BD	
	Volume Level	-40.0)dB
	Device Control		
	[ENTER	R] Enter	[RETURN] Return

NOTE

- If the selected device is compatible with the Zone Management function, "Device Control" mode starts.
- If the selected device is in Party Mode or being controlled with Zone Management, "Device Control" is not displayed.

4 Press $\triangle \nabla \triangleleft \triangleright$ and **ENTER** to select the desired track.

@		[1/7]	
	REMOTE	CONTROL	
💖 Favorites]▶
🥐 Internet Radio			
🔥 Media Server			
👐 Flickr			
🔉 Last.fm			
💿 Napster			
MP MENU) Exit	Vol.up	CH- Vol.d	own
EXIT	Jionap		0

• When in device control mode, <u>REMOTE CONTROL</u> is displayed on the television screen of the controlling device, and <u>REMOTE</u> is displayed on the television screen of the device being controlled.

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The zone management function can only be used on a combination of marantz devices that are equipped with the zone management function.

NOTE

- When the input source is switched to NET/USB operation mode by pressing NET/USB, the volume of the selected device can be controlled using CHANNEL + (volume up) and CHANNEL – (volume down). Note that the volume level is not displayed.
- For services that require an account, set the account settings on the target device in advance. Also, some functions of the device may be restricted in "Device Control" mode.

\Box To end "Device Control" mode





3 Press $\triangleleft \triangleright$ to select "Yes" or "No", then press ENTER.

- Yes Turns off the target device and ends "Device Control" mode.
- **No** Ends "Device Control" mode without turning off the power off the target device.

"Device Control" mode can also be ended from the controlled device side.

- Press AMP MENU on the controlled device.
- ② When "Exit Device Control Mode?" is displayed on the TV screen, select "Yes" and then press ENTER.





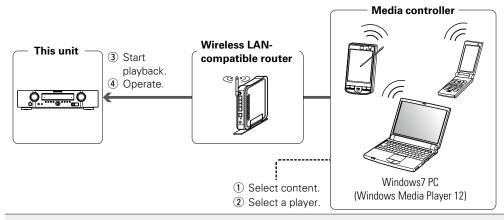






Advanced version

Playing contents on a media controller



Select the content you want to play from among the media controller.

• From the media controller, select this unit from among the products on the network.

- Playback of the content selected in step 1 begins.
- When selecting this unit from the media controller, the name of this unit is displayed at "Friendly Name" (mppage 94 "Friendly Name").
- The following operations are possible from the media controller:
- File operations (play, stop, pause, track search)
- Play mode settings (repeat/random)
- Volume adjustment

From the media controller, browse the media server on the same network and

Operating a media controller to play music and still pictures

Perform this procedure using a media controller conforming to the DLNA (Digital Living Network Alliance)

• This function allows you to play content located on a computer (media server) or connected on a network

Wireless LAN-

Œ

compatible router

choose the content you want to play.

by operating a media controller on the same network.

• There are two types of operations on the media controller.

Playing content on a computer (Media server)

Streaming

Start playback.

(4) Operate.

From the media controller, select this unit from among the products on the network. Playback of the content selected in step 1 begins.

Media controller

- When selecting this unit from the media controller, the name of this unit is displayed at "Friendly Name" (Rpage 94 "Friendly Name").
- The following operations are possible from the media controller:
- File operations (play, stop, pause, track search)
- Play mode settings (repeat/random)
- Volume adjustment

Aa

66

GUI

standard.

This unit -

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• just is displayed on the menu screen while the media controller is being operated.

- For the various settings and operating procedures, see the operating instructions of the media controller beina used.
- When selecting this unit from the media controller, the name of this unit is displayed at "Friendly Name". "Friendly Name" can be edited at "Friendly Name" (page 94) as desired so that it is easily distinguishable from other devices.
- When playback is started from the media controller, this unit's input source automatically switches to "NET/USB". Also, when the "Network Standby" setting (mppage 94) is set to "ON", the power automatically turns on.

NOTE

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When operations related to browsing or playback (play, stop, pause, track search) are performed on this unit while operating the media controller, the connection to the network is disconnected. The network connection is also disconnected when the party mode is started.







Computer

(2) Select a player.

Streaming

Select content.

(F

Windows7 PC

(Windows Media Player 12)

(Media server)





Advanced version

Convenient functions

Information

Web control function

D

Aa

GUI

You can operate this unit using a browser.

1 Switch the "Network Standby" setting to "ON". (<u>Page 94</u>).

2 Check the IP address of this unit with "Network Info." (<u>page 95</u>).

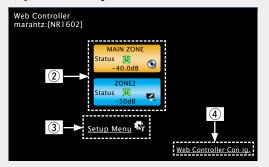


3 Enter the IP address of this unit in browser's address box.

For example, if the IP address of this unit is "192.168.100.19", enter "http://192.168.100.19/".



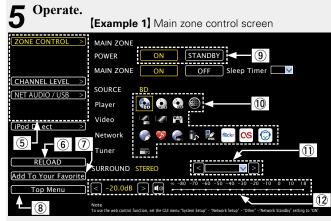
4 When the top menu is displayed, click on the menu item you want to operate.



② Click when you operate each zone. (C [Example 1])

- $(\ensuremath{\mathfrak{I}})$ Click when you operate the setup menu. ($\ensuremath{\mathfrak{T}}$ [Example 2])
- ④ Click to change the Web control screen setting.

(Carl Example 3))



- (5) Click to perform individual operations. Changes to individual operation screens. ((27 [Example 4]))
- (6) Click when you update to the latest information. Normally, there is a change to the latest information each time you operate. When operating from the main unit, click this or else the screen will not be updated.
- ⑦ Click to add a setting to "Favorites" in your browser. We recommend registering the setting screens for the different zones in the browser's favorites so as not to accidentally perform menu operations for zones you do not intend to operate.
- (8) Click to return to the top menu.
 - Displayed when setting "Top Menu Link Setup" to "ON" in **[Example 3]**
- (9) Click when you perform a power operation of the unit.
- 10 Click an icon to change the input source.
- (1) Click "v" and then select a surround mode from the displayed items.
- 1 To adjust the main volume, click "<", ">" or the volume display.

© See overleaf



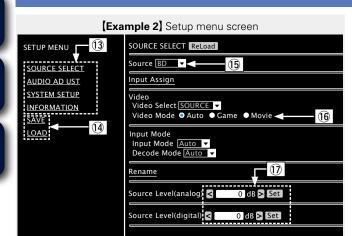
69

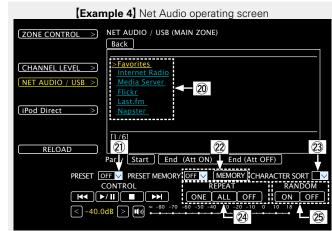






Convenient functions





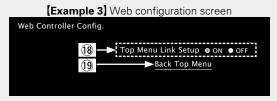
- (1) Click the menu item from which you want to make settings.
- The display on the right becomes the individual setting screens. 14 Click "SAVE" when you want to save settings, and click
- "LOAD" when you want to call settings.
- (15) Click "v" and select from the displayed items.
- (6) Click an item to make a setting.

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GUI

1 Enter figures or click "<" or ">" to make the setting, and then click "Set".



- (18) Click "ON" when performing Top Menu Link Setup. When set up, return to the top menu from each operation screen. (Default setting : "OFF")
- (19) Click this item to return to the top menu.

- 20 Click the menu items. from which you want to play.
- 1 Click "v" to select the preset channel you want to play.
- 2 When registering presets, click "v" to select the channel you want to register, and then click "MEMORY".
- 3 When searching using an acronym, click "v" and select from the displayed characters.
- 24 Click this item to play back repeatedly.
- 25 Click this item to play back randomly.









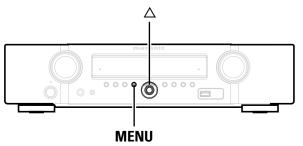


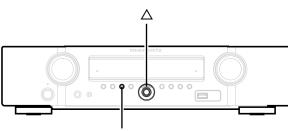


Dual backup memory function

The unit stores settings information in nonvolatile memory even when the main power supply is turned off. Using the Dual Backup Memory function, you can write settings information to another memory area to back up saved settings for recovery anytime as needed.

□ Remembering set details (Backup)





DISPLAY

Recalling remembered details (Recovery)

Set the unit in the state you want remembering, and press and hold \triangle and **MENU** for at least 3 seconds.

"MEMORY SAVING" is shown in the display, and the setting details are remembered.



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GUI

- The volume is not remembered.
- If remembered details are overwritten, the previously remembered contents are deleted.

Press and hold \triangle and **DISPLAY** together for at least 3 seconds.

"MEMORY LOAD" is shown in the display, and the remembered details are recalled.

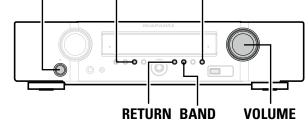


- If there is no remembered data, "NO BACKUP" is shown in the display, and no remembered details are recalled.
- As the volume cannot be recalled, it returns to the factory setting volume.

Panel lock function

To prevent accidental operation of this unit, you can disable operation of the buttons on the front panel.

ON/STANDBY DISPLAY ONE TOUCH PLAY



Information

Basic version

Disabling all key button operations

Press ON/STANDBY while you press and hold ONE TOUCH PLAY and BAND with the unit in standby mode. "Panel Lock:ON" appears on the display and all button operations except **ON/STANDBY** are disabled.

Disabling all button operations except VOLUME

Press ON/STANDBY while you press and hold ONE TOUCH PLAY and DISPLAY with the unit in standby mode.

"Panel Lock:ON" appears on the display and all button operations except **ON/STANDBY** and **VOLUME** are disabled.

Canceling the Panel lock function

Press ON/STANDBY while you press and hold ONE TOUCH PLAY and RETURN with the unit in standby mode.

The Panel lock function is canceled.

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Even when the Panel lock function is set, you can operate the unit using the remote control unit.











Various memory functions

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GUI

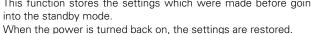
□ Personal memory plus function This function sets the settings (input mode, surround mode, HDMI output mode, MultEQ[®], Dynamic EQ[®], audio delay etc.) last selected for the individual input sources.

Convenient functions

The surround parameters, tone settings and the volumes of the different speakers are stored for the individual surround modes.

□ Last function memory

This function stores the settings which were made before going into the standby mode.















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66

GUI

Playback in ZONE2 (Separate room)

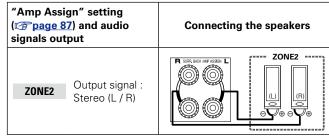
- You can operate this unit so as to enjoy audio in a room (ZONE2) other than the MAIN ZONE (room where the unit is located).
- You can simultaneously play back the same source in both the MAIN ZONE, ZONE2. You can also play back separate sources in the MAIN ZONE and ZONE2.

Audio output

Zone playback by speaker output

The ZONE2 audio signals are output from this unit's SURR.BACK/AMP ASSIGN speaker terminals using the amplifier assignment function.

Connecting and setting the speakers

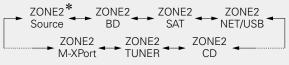


NOTE

It is not possible to play the digital audio signals input from the HDMI, COAXIAL or OPTICAL connectors in ZONE2. Play using analog connections (in stereo).

Playback

- Press Z2 to set the remote control unit to ZONE2-operation mode. Press **ON** | to turn on the ZONE2 L power. The **Z2** indicator on the display lights. • When **STANDBY (**) is pressed, ZONE2 turns off
- 3 Press SOURCE \blacktriangle or SOURCE \blacktriangledown .
- The audio signal of the selected source is output to ZONE2.
- Every time you press **SOURCE** A or **SOURCE ▼**, the input source switches in the following order.



* When "ZONE2 Source" is selected, the input source for MAIN ZONE will be assigned to ZONE2.

	SET PURE DIRECT	SPEAKER A/B	CNI PARTY
	(P1)	(P2)	P3
BD		SAT	TV
		TUNER	M-XP
	Z 2		
		MUTE	VOLUME +
		STATUS OSD	Θ
T/TOP MI			SEARCH/INFO

Adjusting the volume

[Adjustable range] 0 – 41 – 99

Use **VOLUME +**, – to adjust the volume.

[Adjustable range] --- -80dB - -40dB - 18dB



Basic version



Turning off the sound temporarily

Press MUTE.

"-10dB (71)".

The sound is reduced to the level set at "Mute Level" (Ppage 95) in the menu.

- To cancel, either adjust the volume or press **MUTE** again.
- The setting is canceled when the zone's power is turned off.

(When the "Volume Display" (*page 96*) setting is "Relative")

(When the "Volume Display" (2 page 96) setting is "Absolute")

















Sleep timer function

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GUI

This is useful when you want to sleep while listening in ZONE2.

1 Press Z2 to set the remote con- trol unit to ZONE2-operation mode.	
2 Press SLEEP and display the time you want to set.	
• The time switches as shown below each time SLEEP is pressed.	RC014SR
→ OFF → 10 min → 20 → 30 → 120 → 110 → 100 → 90 → 80 →	

To confirm the countdown time before putting the unit to sleep

Press SLEEP.

"Z2 Sleep : ${\boldsymbol{*}}{\text{min}}$ " appears on the display.

* Countdown time

To cancel the sleep timer

Press SLEEP to set "OFF".

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The sleep timer is also canceled when the ZONE2 power is turned off.





74



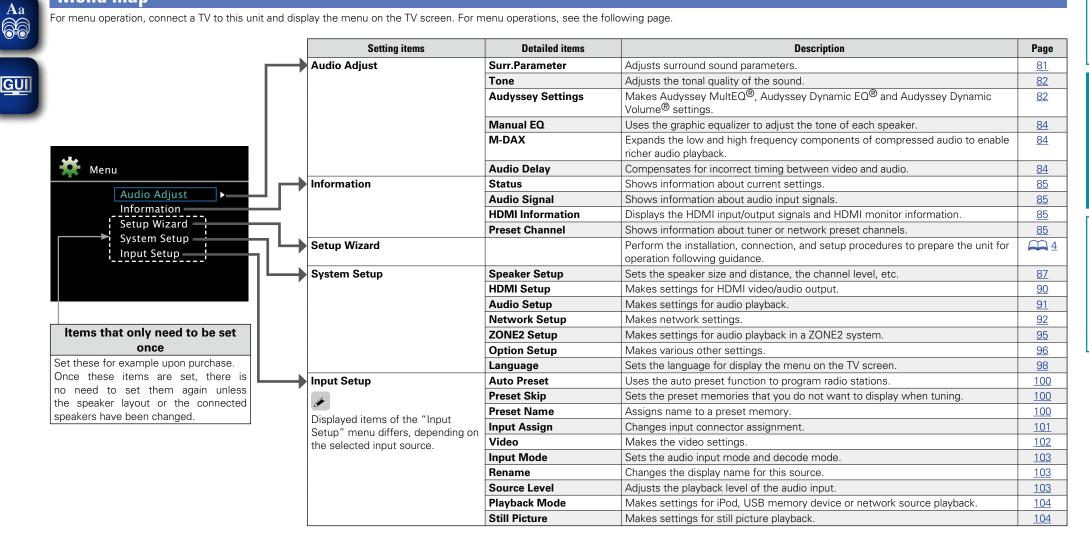


How to make detailed settings

Menu map

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For menu operation, connect a TV to this unit and display the menu on the TV screen. For menu operations, see the following page.



75





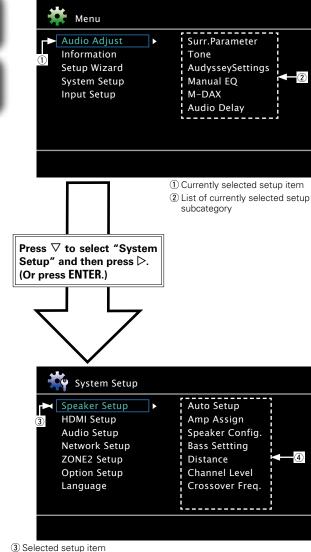
Examples of menu screen displays

Typical examples are described below.

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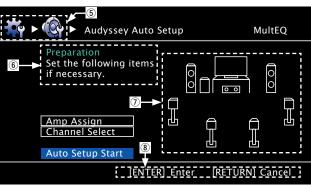
GUI

[Example 1] Menu selection screen (Top menu)



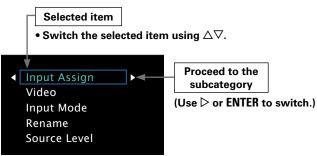
④ Options of the selected setup item

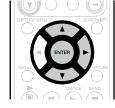
[Example 2] Audyssey[®] Auto Setup screen (with illustration)



(5) History icon
(6) Operation guidance text
(7) Illustration
(8) Operation button guidance

🗆 List









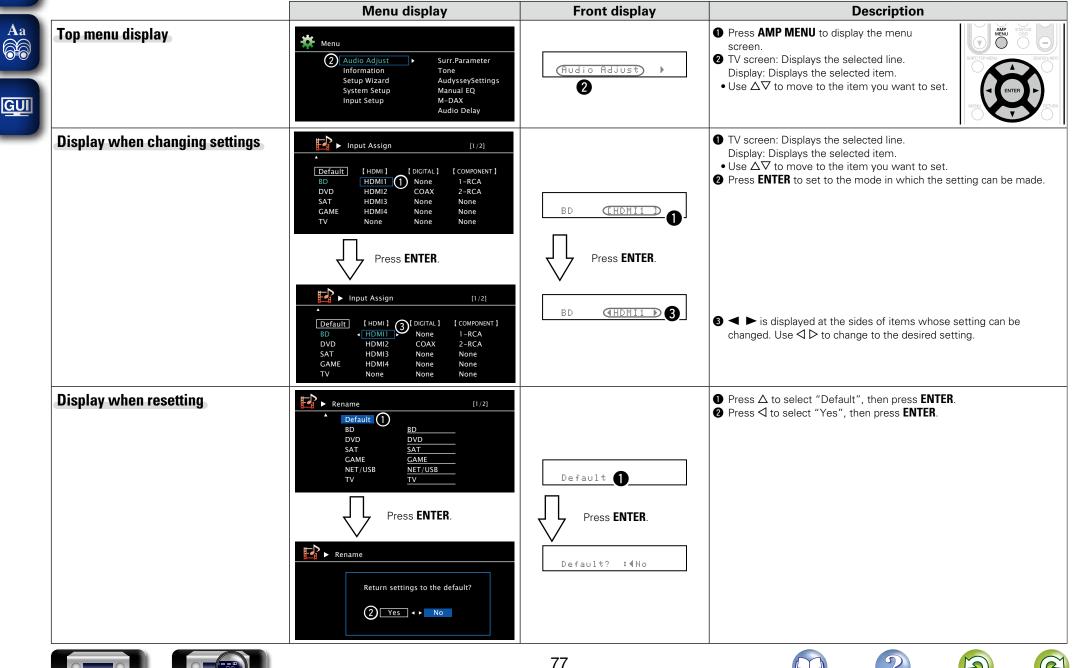




Examples of menu and front display

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





Inputting characters

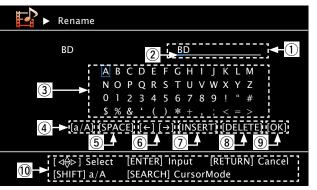
You can change the names as desired using the "Preset Name" (rapage 100), "Rename" (rapage 103), "Last.fm Account" (rapage 95), "Napster Account" (rapage 95), "Zone Rename" (rapage 97) and character input for the network functions. For inputting characters, there are two methods, as shown below.

Method for inputting characters

	Method	Operations
]	Using the keyboard screen	 Operating with the remote control unit. Select a character on the TV screen to input characters.
	Using the cursor buttons (Cursor mode screen)	 Operating with the remote control unit. Use △∇ ▷ and ENTER to input characters.

Keyboard screen

Display of a keyboard input screen



- ① Character input section (Maximum 8 characters)
- ② Cursor
- Keyboard section
- 4 Uppercase and lowercase switch key
- (5) Space key
- 6 Cursor keys
- Insert key
- 8 Delete key
- OK key
- 10 Guide for operation buttons

Using the keyboard screen

1 Display the screen for inputting characters (☆ page 75 "Menu map"). **2** Select a character to be changed. 1 Press △∇⊲ ▷ to select [←] or [→].
2 Press ENTER to place the cursor at the character to be

> **changed.** Each time **ENTER** is pressed, the cursor moves by one character.

Advanced version

3 Select a character to be input with $\triangle \nabla \triangleleft \triangleright$ then press ENTER.

• The types of characters that can be input are as shown below.

[Upper case characters/Numbers/Symbols] ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789 ! " # \$ % & ' () * + , ; < => [Lower case characters/Numbers/Symbols] abcdefghijklmnopqrstuvwxyz 0123456789 . @ - _ / : ~? [\] ^ ` { | }

• When you press **SHIFT/TOP MENU** while you type in, you can change uppercase characters to lowercase and vice versa.

Repeat steps 2 and 3 to change the name.

5 Use $\Delta \nabla \triangleleft \triangleright$ to select [OK], then press ENTER.

See overleaf

Information



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GU





Inputting characters

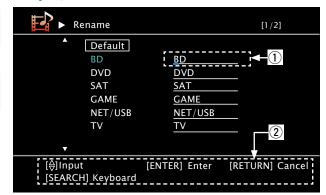
Cursor mode screen

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Aa 60

GUI

Display of a cursor mode screen



Character input section (Maximum 8 characters)
 Guide for operation buttons

Using the cursor buttons

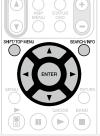
- Display the screen for inputting characters (<u>Page 75</u> "Menu map").
- **2** Press **SEARCH/INFO** while a keyboard screen is displayed.

A cursor mode screen is displayed.

3 Use $\triangleleft \triangleright$ to set the cursor to the character you want to change.

4 Use $\Delta \nabla$ to change the character, then press ENTER.

• The types of characters that can be input are as shown below.



• When you press **SHIFT/TOP MENU** while you type in, you can change uppercase characters to lowercase and vice versa.

5 Repeat steps 3 and 4 to change the name then press ENTER to register it.









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GUI

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" (mpage 120).

NOTE

Some setting items cannot be set while playback is stopped. Make the settings during playback.

Menu operation

- Press AMP MENU.
- The menu is displayed on the TV screen.
- Use $\Delta \nabla$ to select the menu to be set or operated. 2

3 Press **ENTER** or \triangleright to enter the setting.

- To return to the previous item, press RETURN.
- Exiting the Menu, press AMP MENU while the menu is displayed. The menu display disappears.



If **MENU** on the main unit is pressed, the same function as with the remote control unit can be obtained.

Items that can be set with the "Audio Adjust" procedure

Surr.Parameter (Page 81)

Tone (2 page 82)

Audyssey Settings (
page 82)

Manual EQ (Page 84)

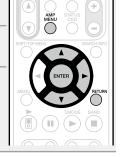
M-DAX (2 page 84)

Audio Delay (2 page 84)

GUI







Audio Adjust

Surr.Parameter

Default settings are underlined.

81

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GUI

Adjust surround sound parameters. It may not be possible to set this item depending on the input signal (<u>Page 120</u> "Surround modes and surround parameters").

NOTE

- You cannot set the surround parameters in the PURE DIRECT mode.
- During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.

Setting items	Setting details
HT-EQ Soften the treble range of movie soundtracks for better understanding.	 ON: "HT-EQ" is used. OFF: "HT-EQ" is not used. Buttons on the remote control unit can be used for operations. Press AMP to set the remote control unit to AMP-operation mode. Press HT-EQ.
DRC Compress dynamic range (difference between loud and soft sounds). D.Comp Compress dynamic range (difference between loud and soft sounds).	Auto: Automatic dynamic range compression on/off control according to source. This can be set in the Dolby TrueHD mode.Low / Middle / High : These set the compression level.OFF : Dynamic range compression always off.OFF : Turn dynamic range compression off.Low / Middle / High : These set the compression level.
Adjust the low-frequency effects level (LFE).	 -10dB - <u>OdB</u> For proper playback of the different sources, we recommend setting to the values below. Dolby Digital sources : "0dB" DTS movie sources : "0dB" DTS music sources : "-10dB"
C.Image Assign center channel signal to front left and right channels for wider sound.	0.0 – 1.0 (<u>0.3</u>)

Setting items	Setting details
Panorama Assign front L/R signal also to surround channels for wider sound.	ON : Set. <u>OFF</u> : Do not set.
Dimension Shift sound image center to front or rear to adjust playback balance.	0 – 6 (<u>3)</u>
C.Width Assign center channel signal to front left and right channels for wider sound.	0 – 7 (<u>3</u>)
Height Gain Control the front height channel volume.	Low : Reduce the front height channel volume. <u>Middle</u> : Front height channel sound is output with standard sound volume. High : Increase the front height channel volume. NOTE
	 "Height Gain" is displayed for the following settings. When "Amp Assign" (12 page 87) is set to "F.HEIGHT". When the "Speaker Config." – "F.Height" setting (12 page 88) is set other than to "None". When surround mode is "PLIIz" or the PLIIz decoder is used.
Default The "Surr.Parameter" settings are returned to the default settings.	 Yes : Reset to the defaults. No : Do not reset to the defaults. When you select "Default" and press ENTER, the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press ENTER.





Audio Adjust

Default settings are underlined.

Tone

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GUI

Adjust the tonal quality of the sound.

Setting items	Setting details	
Tone Control Set the tone control function to "ON" and "OFF".	 ON : Allow tone adjustment (bass, treble). OFF : Playback without tone adjustment. "Tone Control" can be set when "Dynamic EQ[®]" (range 83) is set to "OFF". 	
	 NOTE "Tone Control" settings are not reflected to ZONE2. The tone cannot be adjusted in the "DIRECT" mode. 	
Bass	-6dB - +6dB	
Adjust low frequency range (bass).	✓ "Bass" can be set when "Tone Control" is set to "ON".	
Treble	-6dB - +6dB	
Adjust high frequency range (treble).	"Treble" can be set when "Tone Control" is set to "ON".	

Set Audyssey MultEQ[®], Audyssey Dynamic EQ[®] and Audyssey Dynamic Volume[®]. These can be selected after Audyssey[®] Auto Setup has been performed. For additional information on Audyssey technology, please see page 125.

NOTE

Audyssey Settings

• If you have not performed Auto Setup, or if you change the speaker settings after performing Auto Setup, you may not be able to select Dynamic EQ[®]/Dynamic Volume[®].

In this case, either perform Audyssey[®] Auto Setup over again or perform "Restore" (range 21) to return to the settings after Audyssey[®] Auto Setup was run.

• When HD Audio for which the sampling frequency exceeds 96 kHz is played back, the "Audyssey Settings" cannot be set.

Setting items	Setting details
MultEQ [®] MultEQ [®] corrects both time and frequency response problems in the listening area based on Audyssey [®] Auto Setup calibration. We recommend "Audyssey". MultEQ [®] is the prerequisite function for Dynamic EQ [®] and Dynamic Volume [®] .	 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 84). OFF : Turn "MultEQ[®]" equalizer off. ✓ • "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after Audyssey[®] Auto Setup has been performed. "Audyssey" is automatically selected after performing Audyssey[®] Auto Setup. When "Audyssey", "Audyssey Byp. L/R" or "Audyssey Flat" is selected, Muttees • After running Audyssey[®] Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers measured, only MUTTEE
	 NOTE "MultEQ[®]" and "Manual" cannot be selected when "EQ Customize" is set to "Not Used" (<u>page 91</u>). When using headphones, "MultEQ[®]" is automatically set to "OFF".

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"MultEQ®", "Dynamic EQ®" and "Dynamic Volume®" settings are stored for each input source.

See overleaf

Basic version

Advanced version





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¥4-				Audio Adjust	
Ď	Setting items	Setting details	Setting items	Setting details	B
a	Dynamic EQ® Solve the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Works with	ON: Use Dynamic EQ [®] . OFF: Do not use Dynamic EQ [®] . Image: Constraint of the second	Dynamic Volume[®] Solve the problem of large variations in volume level between TV, movies and other content (between quiet passages and loud passages, etc.) by	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 "Dynamic Volume [®] ".	asic version
	MultEQ [®] . Reference 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	 OdB (Film Ref) : This is the default setting and should be used when listening to movies. 5dB : Select this setting for content that has a very wide dynamic range, such as classical music. 10dB : Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference. 15dB : Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range. 	automatically adjusting to the user's preferred volume setting.	 "Medium" or "Light". If "Dynamic Volume®" is set to "Yes" in Auto Setup (Page 19), the setting is automatically changed to "Medium". Buttons on the remote control unit can be used for operations. Press AMP to set the remote control unit to AMP-operation mode. Press DYN VOL. Each time DYN VOL is pressed, the setting is changed as shown below. 	Advanced version
	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.	Setting is enabled when "Dynamic EQ [®] " is "ON" (1797 page 83).		Dynamic Volume : OFF Dynamic Volume : Heavy Dynamic Volume : Light Dynamic Volume : Medium	Information







Manual EQ

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GU

Default settings are underlined.

Use the graphic equalizer to adjust the tone of each speaker.

"Manual EQ" can be set when "MultEQ®" setting (page 82) is "Manual".

Setting items	Setting details
Adjust Channel Correct the tone of each speaker.	 Select the speaker tone adjustment method. All : Adjust the tone of all speakers together. L/R : Adjust the tone of left and right speakers together. Each : Adjust the tone of each speaker. Select the speaker. Select the adjustment frequency band. 63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz Select the speakers you want to adjust when "L/R" or "Each" i selected. Adjust the level.
Curve Copy	-20.0dB - +6.0dB (0.0dB) Yes : Copy.
Copy "Audyssey Flat" curve from MultEQ [®] .	 No : Do not copy. "Curve Copy" is displayed after Audyssey[®] Auto Setup has been performed. When you select "Curve Copy" and press ENTER, the "Set EQ curve to Audyssey Flat?" prompt is displayed. Select either "Yes" or "No", and press ENTER.
Default The "Manual EQ" settings are returned to the default settings.	 Yes : Reset to the defaults. No : Do not reset to the defaults. When you select "Default" and press ENTER, the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press ENTER.

M-DAX

Compressed audio formats such as MP3, 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 very weak hi Middle : Apply suitable bass and treble boost for all compressed s	5
High : Optimized mode for compressed sources with normal highs	
 This item can be set with analog signals or PCM signal (fs = 44 input. 	4.1/48 kHz) is
• "M-DAX" settings are stored for each input source.	
• When set to "OFF", the M-DAX indicator on the front panel swite	ches off.
 This cannot be set when the surround mode is set to "DIREC DIRECT". 	
 This can also be set by pressing M-DAX. 	
• Buttons on the remote control unit can be used for operations.	
① Press AMP to set the remote control unit to AMP-operation m	
2 Press M-DAX.	DYN VOL HT-EQ V.SEL RANDO

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

Setting details

<u>0ms</u> – 200ms

- This item can be set within the range of 0 to 100 ms when "Auto Lip Sync" (<u>Prage 90</u>) 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" (page 102) is set to "Auto" or "Game".



Default settings are underlined.













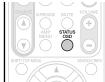
Information

Show information about receiver settings, input signals, etc.

Items	Setting details
Status Show information about current settings.	 MAIN ZONE This item shows information about settings for MAIN ZONE. The information displayed differs according to the input source. Select Source / Name / Surround Mode / Input Mode / Decode Mode / Assign / Video Select / Video Mode / Content Type etc.
	ZONE2 This item shows information about settings for ZONE2. Power / Select Source / Volume Level
	"Volume Level" for ZONE2 is displayed when "Amp Assign" is set to "ZONE2".
Audio Signal Show information about audio input signals.	 Surround Mode : The currently set surround mode. Signal : The input signal type. fs : The input signal's sampling frequency. Format : The number of channels in the input signal (front, surround, LFE). Offset : The dialogue normalization correction value. 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.
	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 the STATUS on the main unit.
	Offset - 4dB
	The figure is the corrected value. This cannot be changed.

Items	Setting details
HDMI Information Show information about	Signal Info. • Resolution / Color Space / Pixel Depth
HDMI input/output signals and monitor.	Monitor Info. • Interface / Support Resol.
Preset Channel Show information about	Preset 1 – 3 A1 – G8
preset channels.	"Preset 1 – 3" is displayed when the input source is "NET/USB".

en if **STATUS OSD** is pressed, the Information screen (Status, Audio Signal, DMI Information) can be displayed.





GUI

Advanced version



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GUI

System Setup

GUI

- Set when changing Audyssey[®] Auto Setup settings, or when changing the audio, video, display
- ullet If you change the speaker settings after performing Audyssey ${}^{\!\!\mathrm{B}}$ Auto Setup, it will not be possible to set Audyssey MultEQ[®], Audyssey Dynamic EQ[®] and Audyssey Dynamic Volume[®] (CP page 82, 83).
- Can be used without changing the settings. Please set if necessary.

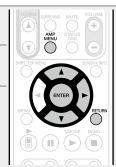
Menu operation

or other settings.

- **1** Press AMP MENU. The menu is displayed on the TV screen.
- 2 Use $\Delta \nabla$ to select the menu to be set or operated.

3 Press ENTER or \triangleright to enter the setting.

- To return to the previous item, press RETURN.
- Exiting the Menu, press AMP MENU while the menu is displayed. The menu display disappears.



- Items that can be set with the "System Setup" procedure
 - Speaker Setup (page 87)

HDMI Setup (mppage 90)

Audio Setup (2 page 91)

Network Setup (Page 92)

ZONE2 Setup (12 page 95)

Option Setup (main page 96)

Language (🕼 page 98)



Basic version







Basic version

Advanced version

Information

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GUI

Speaker Setup

Default settings are underlined.

- 83).
- "System Setup" can be used without changing the settings. Please set if necessary.

Setting items	Setting details
Amp Assign The signal output from the SURR.BACK/AMP ASSIGN speaker terminal of this unit can be switched to match your speaker environment.	 NORMAL : Select the "NORMAL" setting to perform 7.1-channel playback using the surround back. ZONE2 : Select the "ZONE2" setting to assign the unit's built-in power amplifier for ZONE2 and output the audio in stereo. SPKR-C : Select the "SPKR-C" setting to connect the front speakers via the bi-amp connection. Front B : Select the "Front B" setting to use the second set of front speakers for playback. You can switch the front speakers A and B to be used for playback in accordance with the 2-channel playback or multichannel playback mode. F.HEIGHT : Select the "F.HEIGHT" setting to use the front height speaker for playback.
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."	 Front : Set the front speaker size. Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. When "Subwoofer" is set to "No", "Front" is automatically set to "Large". When "Front" is set to "Small", "Center", "Surround", "S.Back" and "F.Height" can not be set to "Large". Center : Set the presence and size of the center speaker.
(CF page 89) as the standard for determining bass reproduction capability.	 Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when a center speaker is not connected. "Large" is not displayed when "Front" is set to "Small".

Setting items	Setting details
Speaker Config. (Continued)	 Subwoofer : Set the presence of a subwoofer. <u>Yes</u> : Use a subwoofer. No : Select when a subwoofer is not connected.
	When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".
	 Surround : Set the presence and size of the surround speakers. Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when the surround speakers are not connected. When "Surround" is set to "Large", "S.Back" and "F.Height" can be set to "Large". When "Surround" is set to "None", "S.Back" and "F.Height" are automatically set to "None".
	 S.Back : Set the presence, size and number of surround back speakers. Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when the surround back speakers are not connected.
	 <u>2spkrs</u>: Use two surround back speakers. 1spkr: Use only one surround back speaker. When you select this setting, connect the surround back speaker to the left (L) channel.
	NOTE When "Amp Assign" setting (<u>page 87</u>) is "NORMAL", you can make the "S.Back" setting.









Basic version

Advanced version

Information

Setting items	Setting details	Setting items	Setting details
peaker Config. Continued)	 F.Height : Set the presence and size of the front height speakers. Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when the front height speakers are not connected. NOTE When "Amp Assign" setting (page 87) is "F.HEIGHT", you can make the "F.Height" setting. 	Distance Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.	Unit : Set the unit of distance. • <u>Meters / Feet</u> Step : Set the minimum variable width of the distance. • <u>0.1m</u> / 0.01m • <u>1ft / 0.1ft</u> Default : The "Distance" settings are returned to the default settings. • Yes : Reset to the defaults. • No : Do not reset to the defaults. • When you select "Default" and press ENTER,
ass Setting et subwoofer and LFE gnal range playback.	 Subwoofer Mode : Select low range signals to be reproduced by subwoofer. LFE : The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer. LFE+Main : The low range signal of all channels is added to the LFE signal output from the subwoofer. Subwoofer Mode" can be set when "Speaker Config." – "Subwoofer" (Spage 87) is set to "Yes". Play music or a movie source and select the mode offering the strongest bass. Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer. If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode. LPF for LFE : Set LFE signal playback range. Set this when you want to change the playback frequency of the subwoofer. 		 the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press ENTER. Front L / Front R / Center / Subwoofer / Surround L / Surround R S.Back L* / S.Back R* / F.Height L / F.Height R : Select the speaker. * When the "Speaker Config." – "S.Back" setting (IT page 87) is set to "1spkr", "S.Back" is displayed. 0.00m – 18.00m / 0.0ft – 60.0ft : Set the distance. * * The speakers that can be selected differ depending on the "Amp Assign (IT page 87) and "Speaker Config." (IT page 87) settings. Default settings : Front L / Front R / Center / Subwoofer / F.Height L / F.Height R : 3.60 r (12.0 ft) Surround L / Surround R / S.Back L / S.Back R : 3.00 m (10.0 ft) Set the difference in the distance between the speakers to less tha 6.00 m (20.0 ft).

See overleaf

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Setting items	Setting details	Setting items	Setting details
Channel Level Set the volume of the test tone to be the same when it is output from each speaker.	 Test Tone Start : Output test tone. Front L / F.Height L / Center / F.Height R / Front R / Surround R / S.Back R* / S.Back L* / Surround L / Subwoofer : Select the speaker. * When the "Speaker Config." – "S.Back" setting (P page 87) is set to "1spkr", "S.Back" is displayed. -12.0dB – +12.0dB (0.0dB) : Adjust the volume. • When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 64. • You can enter this setting item immediately after pressing AMP, then T.TONE. • Speakers set to "None" in the "Speaker Config." • Speakers set to "None" in the "Speaker Config." • When a headphones jack is inserted in the PHONES jack of this unit, the 	Crossover Freq. Set the maximum frequency of the bass signal output from each channel to the subwoofer. Set the Crossover Frequency to suit the bass reproduction capability of the speaker being used.	 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 / F.Height : Select the speaker. 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz : Set the crossover frequency. * * Crossover Freq." can be set when the "Bass Setting" – "Subwoofer Mode" (Corpage 88) setting is "LFE+Main", or when you have a speaker that is set to "Small". Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency. 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. The speakers that can be set when "Advanced" is selected differ depending on to the "Subwoofer Mode" setting (Corpage 88). When "LFE" is selected, speakers set to "Small" at "Speaker Config."
	 "Channel Level" is not displayed. Default : The "Channel Level" settings are returned to the default settings. Yes : Reset to the defaults. No : Do not reset to the defaults. 		can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made.If set to "LFE+Main", this setting can be made regardless of the speaker size.
	When you select "Default" and press ENTER , the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press ENTER .		See overleaf

Information

Basic version

Advanced version

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Image: Provide settings for HDMI video/audio output. Default settings are underlined. Standbus Make settings for HDMI video/audio output. Sets the

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GUI

Setting items	Setting details	
Auto Lip Sync	ON : Compensated.	
Make automatic	OFF : Not compensated.	
ompensation for timing		
shift in audio and video		
output.		
	AMP : Play back through speakers connected to the unit.	
Select HDMI audio output	TV : Play back through TV connected to the unit.	
device.	and the second se	
	• The audio signal input from the HDMI input connector can be output as	
	an output signal from the HDMI output connector by setting the HDMI	
	audio output destination to TV.	
	Audio signals input via the Analog/Coaxial/Optical input connectors	
	cannot be output from the HDMI output connector.	
	 When the HDMI control function is activated, priority is given to the TV audio setting (page 62 "HDMI control function"). 	
HDMI Control	ON : Use HDMI control function.	
You can link operations with		
devices connected to HDMI		
and compatible with HDMI		
Control.	 When a device that is not compatible with the HDMI control function is connected, set "HDMI Control" to "OFF". 	
	 Please consult the operating instructions for each connected device to check the settings. 	
	• Refer to "HDMI control function" (127 page 62) for more information	
	about the HDMI control function.	
	NOTE	
	• When "HDMI Control" is set to "ON", it consumes more standby	
	power. If you are not using this unit for an extended period, it is	
	recommended that you unplug the power cord from the power outlet.	
	• "HDMI Control" does not work when the power to the device is off.	
	Either turn power on or set to standby.	
	 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.	
	• If the "HDMI Control" settings have been changed, always reset the	
	power to connected devices after the change.	

Setting items	Setting details
Standby Source Sets the HDMI input source to put into standby when the power is on.	Last : This item is set at the last-used input source. HDMI1 / HDMI2 / HDMI3 / HDMI4 : Put the respective input source into standby. * "Standby Source" can be set when "HDMI Control" is set to "ON".
P.Off Control Links the power standby of this unit to external devices.	 All : If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby. Video : If power to a connected TV is turned off when the input source is BD / DVD / SAT / GAME / TV, power to this unit is automatically set to standby. OFF : This unit does not link with power to a TV. ✓ "P.Off Control" can be set when "HDMI Control" is set to "ON".

Basic version



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GUI

System Setup

Default settings are underlined.

Audio Setup

Setting items	Setting details		
EQ Customize	Manual : Set when not using the "Manual" equalizer.		
Set the disengaged	• <u>Used</u> : Use.		
equalizers to not display	• Not Used : Do not use.		
when MultEQ [®] is selected.	Audyssey Flat : Set when not using "Audyssey Flat" equalizer.		
	• Used : Use.		
	• Not Used : Do not use.		
	Set so that "Audyssey Flat" settings can be made when Audyssey [®] Auto Setup is performed.		
	Audyssey Byp. L/R : Set when not using "Audyssey Byp. L/R" equalizer.		
	• <u>Used</u> : Use.		
	• Not Used : Do not use.		
	Set so that "Audyssey Byp. L/R" settings can be made when Audyssey [®] Auto Setup is performed.		

Make settings for audio playback.

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GUI

Network Setup

Default settings are underling

Make network settings.

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Setting items Setting details Network Connect. Only set "Network Connect." when connecting to a network without DHCP function. Make settings for wired ₩ ► 🚯 ► Network Connect. OFF 192.168.0.1 DHCP IP Address Exit Detai 1 Ketwork Connect. (2) ◆ OFF ◆ 192.168.000.001 IP Address Subnet Mask 255.255.255.000 Default Gateway 000.000.000.000 (3 Primary DNS 000.000.000.000 000.000.000.000 Secondary DNS Proxy (4) Exit ① On the menu, select "Network Connect." -"Detail" and press ENTER. (2) Use $\Delta \nabla \triangleleft \triangleright$ to set "DHCP" to "OFF". The DHCP function is disabled.

Setting items	Setting details
Network Connect.	③ Use $\Delta \nabla \triangleleft \triangleright$ to input the address and press ENTER .
(Continued)	• IP Address : Set the IP address within the ranges shown below.
	The Network Audio function cannot be used if other IP addresses
	are set.
	CLASS A: 10.0.0.1 – 10.255.255.254
	CLASS B: 172.16.0.1 – 172.31.255.254
	CLASS C: 192.168.0.1 – 192.168.255.254
	• Subnet Mask : When connecting an xDSL modem or terminal
	adapter directly to this unit, input the subnet mask indicated in
	the documentation supplied by your provider. Normally input
	255.255.255.0.
	Default Gateway : When connected to a gateway (router), input its
	IP address.
	Primary DNS, Secondary DNS : If there is only one DNS address
	indicated in the documentation supplied by your provider, input it a
	"Primary DNS". If there are two or more DNS addresses, input the
	first one at "Secondary DNS".
	④ Use ∇ to select "Exit" and press ENTER .
	Setup is complete.
	 When connecting to the network via a Proxy server, select "Proxy" and press ENTER (prove 93 "Proxy settings").
	• If you are using a broadband router (DHCP function), there is no need
	to make the settings at "IP Address" and "Proxy", since the DHCF
	function is set to "ON" in this unit's default settings.
	• If this unit is being used connected to a network without the DHCF
	function, the network settings must be made. In this case, some
	knowledge of networks is required. For details, consult a network administrator.
	 If you cannot connect to the Internet, recheck the connections and settings (<u>Page 14</u>).
	 If you do not understand about Internet connection, contact your ISF (Internet Service Provider) or the store from which you purchased your computer.
	 When you want to cancel the setting during IP address input, press RETURN.

© See overleaf



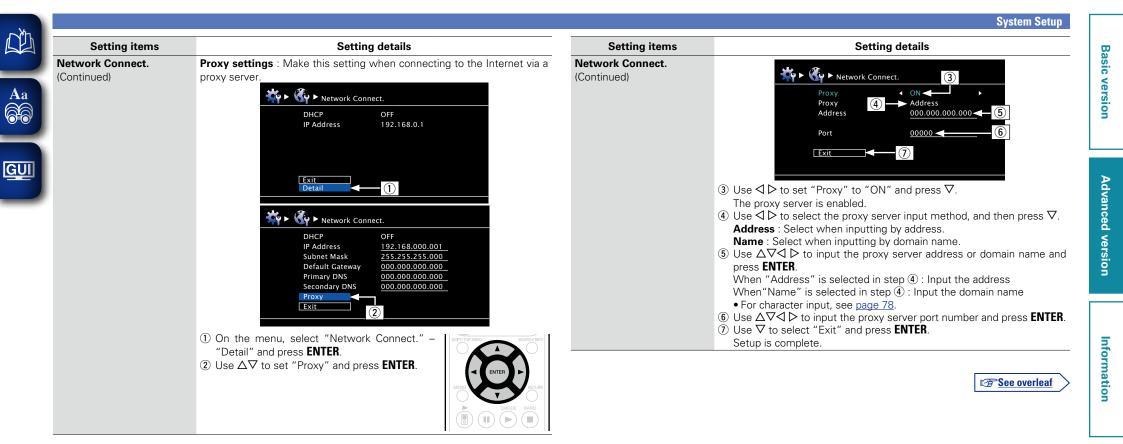
System Setup

















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- 10-				System Setup	
	Setting items	Setting details	Setting items	Setting details	σ
Aa මීම්	Other Network function on/off setting during standby, and PC language setting.	 Network Standby : Set the network function on/off during standby. ON : Network is on during standby. Main unit operable with a network compatible controller. OFF : Suspend network function during standby. Set to "ON" when using the web control function. NOTE 	Other (Continued)	 Party Mode : Set the Party Mode. Party Mode : Set the Party Mode function. ON : Enable party mode function. OFF : Disable party mode function. Refer to page 66, "Party mode function" for more information on the party mode function. 	Basic version
GUI		 When "Other" - "Network Standby" is set to "ON", it consumes more standby power. Character : When characters are not displayed correctly, set the MP3 ID3-Tag character code type reproduced by the USB memory device. Auto : Auto-select character code. Latin : Select ISO 8859-1 Latin-1. Japanese : Select Shift-JIS. If the characters are not properly displayed when set to "Auto", set to "Latin" or "Japanese". PC Language : Select computer environment language. Arabic / Chinese(simplified) / Chinese(traditional) / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Italian / Japanese / Korean / Norwegian / Polish / 		 Party Start Lev. : Make settings for volume level when the party mode is started. Last : The same volume as set before the party mode was started. (0) : Always use the muting on condition when the party mode is started. - 80dB - 18dB (1 - 99) : Start party mode with your preferred volume. ** • This can be set when "Party Mode" is set to "ON". • This is displayed from 0 to 99 when "Volume Display" (*** page 96) is set to "Absolute". • You can set to the upper limit set with "Volume Limit" (*** page 96). Zone Management : See "Zone Management function" (*** page 67). 	Advanced version
		 Portuguese / Portuguese(Brazil) / Russian / Spanish / Swedish / Turkish Friendly Name : The Friendly Name is the name of this unit displayed on the network. Up to 63 characters can be input. The default Friendly Name on first use is "marantz:[NR1602]". For character input, see page 78. Default : Restores Friendly Name, which you had changed, to the default setting. Yes : Reset to the defaults. No : Do not reset to the defaults. When you select "Default" and press ENTER, the "Return settings to the default?" prompt 		See overleaf	Information

the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press **ENTER**.







Default settings are underlined.

Setting items Setting details Other **Notification**: Sets the display of a notification message when the latest (Continued) firmware is released. Aa **Update** : Displays a notification message on this unit's menu screen when 6 the latest firmware is released with "Firmware Update". The notification message is displayed for about 20 seconds when the power is turned on. Connect to broadband Internet (page 14) when using this function. • ON : Display update message. • OFF : Do not display update message. GUI ø • When you press ENTER during display of the notification message, the "Check for Update" screen is displayed (Refer to page 97 for more information on "Firmware Update"). • Press **RETURN** to erase the notification

Press KETURN to erase the notification is supported by the second seco

- ON : Display upgrade message.
- **OFF** : Do not display upgrade message.

- When you press **ENTER** during display of the notification message, the "Add New Feature" screen is displayed (Refer to <u>page 98</u> for more information on "Add New Feature").
- Press RETURN to erase the notification message.
 Username / Password / Clear

 Napster Account
 Username / Password / Clear

 Set or change Username
 • For character input, see page 78.

 and Password
 (127 page 44 "Listening to

Napster"). Last.fm Account Username / Password / Clear Set or change Username • For character input, see page 78. and Password (Depage 42 "How to listen to Last.fm on this unit"). Last.fm Display Display : Display Last.fm item on the menu. Set whether or not to Hidden : Do not display Last.fm item on the menu. display Last.fm item on the menu. Network Info. Friendly Name / DHCP=ON or OFF / IP Address / MAC Address

Display network information.

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ZONE2 Setup

Set the audio to play back with multi-zone (ZONE2).

"ZONE2 Setup" is displayed when "ZONE2" is selected with "Amp Assign".

Setting items	Setting details
Lch Level Adjust the left channel output level.	–12dB – +12dB (<u>0dB</u>)
Rch Level Adjust the right channel output level.	–12dB – +12dB (<u>0dB)</u>
Volume Limit Make a setting for maximum volume.	 OFF : Do not set a maximum volume. -20dB (61) / -10dB (71) / 0dB (81) This is displayed from 0 to 99 when "Volume Display" (127 page 96) is set to "Absolute".
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. (0) : Always mute when power is turned on. -80dB - 18dB (1 - 99) : The volume is adjusted to the set level. ✓ This is displayed from 0 to 99 when "Volume Display" (☞ page 96) is set to "Absolute".
Mute Level Set the amount of attenuation when muting is on.	Full : The sound is muted entirely. -40dB : The sound is attenuated by 40 dB down. -20dB : The sound is attenuated by 20 dB down.



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GUI

Option Setup

Default settings are underlined.

Make various other settings.

Setting items	Setting details
Volume Control Set the MAIN ZONE (room where the unit is located) volume setting.	 Volume Display : Set how volume is displayed. <u>Relative</u> : DisplaydB (Min), in the range -80.5 dB to 18 dB. Absolute : Display in the range 0 (Min) to 99. The "Volume Display" setting is applied also to the "Volume Limit" and
	"Power On Level" display method.The "Volume Display" setting applies to all zones.
	Volume Limit : Make a setting for maximum volume. • <u>OFF</u> : 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. (0) : Always use the muting on condition when power is turned on. -80dB - 18dB (1 - 99) : The volume is adjusted to the set level.
	 Mute Level : Set the amount of attenuation when muting is on. Full : The sound is muted entirely. -40dB : The sound is attenuated by 40 dB down. -20dB : The sound is attenuated by 20 dB down.
Source Delete Remove from the display input sources that are not used.	 BD / DVD / SAT / GAME / NET/USB / TV / CD / TUNER / M-XPort : Select input source that is not used. <u>ON</u> : Use this source. Delete : Do not use this source.
	NOTE • Input sources being used in the various zones cannot be deleted. • Input sources set to "Delete" cannot be selected using the input source select button or SOURCE ▲▼.

Setting items	Setting details
GUI Make the settings related to displays on the TV screen.	 Screensaver : Make screensaver settings. ON : The screensaver is activated during menu display, NET/USB, iPod or Tuner screen display if no operation is performed for an approximately 5-minute continuous period. When you press △∇<i>, the screensaver is cancelled and the screen before that screen saver started is displayed.</i> OFF : Screensaver is not activated.
	 Format : Set the video signal format to be output for the TV you are using. NTSC : Select NTSC output. PAL : Select PAL output.
	 <i>i</i> "Format" can also be set by the following procedure. However, the menu screen is not displayed. 1. Press and hold the main unit's MENU and ENTER for at least 3 seconds. "V.Format:<pal>" appears on the display.</pal> 2. Press the main unit's > and set the video signal format. 3. Press the main unit's ENTER to complete the setting.
	NOTE When a format other than the video format of the connected TV is set, the picture will not be displayed properly.
	 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. <u>Bottom</u> : 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".









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Basic version

Advanced version

Information

Setting items	Setting details	Setting items		Setting details
GUI NET/USB : Set the NET/USB screen display time when the input source is "NET/USB". • Always : Show display continuously. • 30s : Show display for 30 seconds after operation. • 10s : Show display for 10 seconds after operation. • 0FF : Turn display off. IPod : Set the iPod screen display time when the input source is "USB/iPod". • Always : Show display continuously. • 30s : Show display for 30 seconds after operation. • OFF : Turn display off. IPod : Set the iPod screen display time when the input source is "USB/iPod". • Always : Show display continuously. • 30s : Show display for 30 seconds after operation. • OFF : Turn display off. • OFF : Turn display for 10 seconds after operation. • OFF : Turn display off.		Setup Lock Protect settings from inadvertent change.	NOTE When "Setup Lock" longer be changed. A operate related settin • Menu operations • M-DAX • HT-EQ	i off. the setting, set "Setup Lock" to "OFF". is set to "ON", the settings listed below can no Also, "Setup Lock!" is displayed if you attempt to
	 Tuner : Set the tuner screen display time when the input source is "TUNER". Always : Show display continuously. <u>30s</u> : Show display for 30 seconds after operation. 10s : Show display for 10 seconds after operation. OFF : Turn display off. 	Update the firmware of the receiver.	approximately how lo Start : Execute the u When updating start screen is shut down displayed.	ing it will take to complete an update. pdate process. s, the power indicator becomes red and the menu . The amount of update time which has elapsed is
Zone Rename Change the display title of each zone to one you prefer.			 If updating fails, the set automatically retries, but if updating is still not possible, one of the messages shown below is displayed. If the display reads as shown below, check the settings and network environment, then update again. 	
Display Set the display on/off	<u>ON</u> : Display is always on. Auto OFF : Display is off except when showing the status display.		Display	Description
setting.	 OFF : Display is on except when showing the status display. OFF : Display is always off. This can also be set by pressing DISP. Each time DISP is pressed, the setting is changed as shown below. 		Updating fail Login failed Server is busy Connection fail Download fail	Updating failed. Failure to log into server. Server is busy. Wait a while then try again. Failure in connecting to server. Downloading of the firmware has failed.
	• If DISPLAY on the main unit is pressed, the same function as with the remote control unit			See overleaf



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can be obtained.



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Default settings are underlined.

Setting items	Setting details	
Add New Feature Display new features that can be downloaded to this unit and perform an update.	 Upgrade : Execute the upgrade process. When updating starts, the power indicator becomes red and the menu screen is shut down. The amount of update time which has elapsed is displayed. If the upgrade is not successful, an error message identical to those in "Firmware Update" will appear on the display. Check the settings and network environment, then update again. Upgrade Status : Display a list of the additional functions provided by the upgrade. See the marantz website for details about updates. When the procedure is complete, "Registered" is displayed in this menu and updates can be carried out. If the procedure has not been carried out, "Not Registered" is displayed. The ID number shown on this screen is needed when carrying out the procedure. The ID number can also be displayed by pressing and holding the main unit's ≥ and MENU for at least 3 seconds. 	Language Set the language for display on the m English / Deutsch / Français ✓ "Language" can also be set by the f 1. Press and hold the main unit's M "V.Format: <pal>" appears on th 2. Press the main unit's STATUS and 3. Press the main unit's ENTER to co</pal>

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection (page 14).
- Do not turn off the power until updating or upgrading is completed.
- Even with a broadband connection to the Internet, approximately 1 hour is required for the updating/ upgrading procedure to be completed.
- Once updating/upgrade starts, normal operations on this unit cannot be performed until updating/ upgrading is completed.
- Furthermore, updating/upgrading the firmware may reset the backup data for the parameters, etc. set for this unit.
- If the update or upgrade fails, press and hold the **ON/STANDBY** on the main unit for more than 5 seconds, or remove and re-insert the power cord. "Update retry" appears on the display and update restarts from the point at which update failed. If the error continues despite this, check the network environment.

ø

- Information regarding the "Firmware Update" function and "Add New Feature" will be announced on the marantz web site each time related plans are defined.
- When usable new firmware is released with "Firmware Update" or "Add New Feature", a notification message is displayed on the menu screen. When you do not want to be notified, set "Notification" -"Update" (Page 95) and "Upgrade" (Page 95) to "OFF".

menu screen.

Setting details

e following procedure. However, the menu screen is not displayed. MENU and ENTER for at least 3 seconds.

the display.

and set "Lang:<ENGLISH >".

set the language.

complete the setting.









Aa ම

GUI

Input Setup

Perform settings related to input source playback.

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

Menu operation

Press AMP MENU. 1

The menu is displayed on the TV screen.

Use $\Delta \nabla$ to select the menu to be set or operated. 2

3 Press ENTER or \triangleright to enter the setting.

- To return to the previous item, press RETURN.
- Exiting the Menu, press AMP MENU while the menu is displayed. The menu display disappears.

Important information

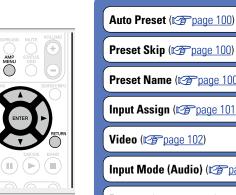
□ About the display of input sources

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

- BD | DVD | SAT | GAME | NET/USB | Favorites | Internet Radio | Media Server | USB/iPod | Flickr
- Last.fm Napster TV CD TUNER M-XPort

NOTE

Input sources that have been set to "Delete" at "Source Delete" (page 96) cannot be selected.



Preset Name (Preset Name (Prese

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

Input Assign (mpage 101)

Video (102)

Input Mode (Audio) (
page 103)

Rename (<u>page 103</u>)

Source Level (Audio) (page 103)

Playback Mode (page 104)

Still Picture (Page 104)

GUI







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Basic version

Auto Preset

Preset Skip

Aa මම

GUI

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	

Assign name to a preset memory.

Preset Name

Setting items	Setting details	
Block Select the preset memory block.	A/B/C/D/E/F/G	
TUNER		
A1 – G8 Change the display name of the selected channel. TUNER	 Up to eight characters can be input. For character input, see <u>page 78</u>. 	
	M. D. Harden I. C. H	
Default The changed preset name is returned to the default	Yes : Reset to the defaults. No : Do not reset to the defaults.	SHIFT/TOP MENU SEARCH/INFO
setting.	When you select "Default" and press ENTER, the "Return settings to the default?" prompt is displayed. Select either "Yes" or "No", and press ENTER.	MERU ENTER P MERU F AND LMODE BAND

Set preset channel to be skipped when selecting.

Setting items	Setting details	Default The changed preset name	Yes No
Block Select the preset memory block.	A/B/C/D/E/F/G	is returned to the default setting.	
TUNER			
Block Presets Skip all channels of the selected preset memory blocks.	ON : Display the selected preset memory block. Skip : Do not display the selected preset memory block.		
A1 – G8 Set by individual preset channels in the currently selected preset memory block.	 ON : Display the selected preset channel. Skip : Do not display the selected preset channel. ✓ If you set "Block Presets" to "Skip", you can skip by blocks (A – G). 		
TUNER			

Default settings are underlined.









Input Setup

Input Assign

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GUI

Examples of "Input Assign" menu screen displays

This screen appears when the "Input Setup" – "each input source" – "Input Assign" menu is selected. Use the "Input Assign" menu to change the ② HDMI input connectors, ③ Digital input connectors, ar ④ component input connectors that are assigned to the ① input sources in default settings.

🖬 🕨 Input Assign		[1/2]
Default [HDMI] BD HDMI] DVD HDMI2 SAT HDMI3 GAME HDMI4 TV None 1 2 [↓	[DIGITAL] None COAX None None None 3	[COMPONENT] 1-RCA 2-RCA None None None None ETURN] Return

Input assignments menu operations

1	Use $\triangle \nabla \triangleleft \triangleright$ to move the highlight to the item you want to set.
	Press ENTER , then use $\lhd \triangleright$ to select the input connector to be assigned.

3 Press ENTER to register the setting.



Setting items			Setting de	tails		
DMI et this to change the HDMI put connectors assigned the input sources. BD DVD SAT	HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4 None : Do not assign an HDMI input connector to the selected input source. • At time of purchase, the settings of the different input sources are as					
GAME TV	shown below.	BD	DVD	SAT	GAME	TV
	Default setting	HDMI 1	HDMI 2	HDMI 3	HDMI 4	None
	signal assigned Mode" (I pag • The audio signa output to the m • When "HDMI connector cann	<u>als input fro</u> onitor. Control" (I ot be assign	m the anal <u>page 90</u> med to "TV"	og and digit)) is set to	al connect	ors are n
DIGITAL Set this to change the digital input connectors assigned to the input sources.	 COAX (coaxial) / None : Do not as: At time of purc shown below. 	sign a digita	input conn			
BD DVD SAT GAME TV CD	Input source	BD D	/D SAT	GAME		CD
	Default setting	None CO	AX Non	e None	None	ОРТ

See overleaf





14									Input Setup
	Setting items			Setting de	tails			Video	Default settings are underlined.
Aa	COMPONENT (Component video) Set this to change the component video input	 1-RCA / 2-RCA None : Do not as: input source. At time of purch 	0		·			Set the source video. * "GAME" or "TV" can be been assigned.	e set when "HDMI" (r <u>page 101</u>) or "COMPONENT" (r <u>page 102</u>) has
10°0	connectors assigned to the input sources.	shown below.		ottinge er i		it input oot		Setting items	Setting details
	BD DVD SAT	Input source	BD	DVD	SAT	GAME	TV	Video Select Video of another input	Source : Play the picture and sound of the input source. BD / DVD / SAT / GAME / TV : Select video input source to view. This can
GUI	GAME TV	Default setting	1-RCA	2-RCA	None	None	None	source is played back combined with the playing audio.	be set for individual input sources.
_		An input sourd be assigned is				input conne	ector cannot		 "GAME" and "TV" can be selected only when a component video is assigned as an input source. Buttons on the remote control unit can be used
	Default	Yes : Reset to the	e defaults.			SHIFT/TOP MENU	SEABCH/INEO		for operations. (1) Press AMP to set the remote control unit to
	1 0 0	No : Do not reset	to the defa	aults.					ANAD operation mode
	are returned to the default settings.	If you select ' message "Re							 Press V.SEL until the desired picture appears. To cancel, press V.SEL to select "Source".
		is displayed. S press ENTER .		s" or "No",	and then		T,MODE BAND		NOTE

Video Mode

processing.

GAME *

BD

102

Make settings for video

DVD

TV *

SAT

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a -
2.
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Basic version

Advanced version

ă

• It is not possible to select HDMI input signals.

(Rppage 96) cannot be selected.

Movie : Process video normally.

information.

input contents.

• Input sources for which "Delete" is selected at "Source Delete"

Auto : Process video automatically based on the HDMI content

• If "Video Mode" is set to "Auto", the mode is switched according to the

• If a source is played in both MAIN ZONE (audio and video) and ZONE2 (audio only) modes in the same room, audio in MAIN ZONE and ZONE2 modes may sound out of synchronization, but this is not malfunction. In this case, setting to "Game" mode may improve audio synchronization.

Game : Always process video appropriate for game content.



	m
Input Setu	1.9.1

Basic version

Advanced version

Default settings are underlined.

Information

	p	
	The input modes available for	selection may vary deper
Aa	Setting items	
	Input Mode	Auto : Automatically de
	Set the audio input modes	HDMI : Play only signals

Input Mode (Audio)

GUI

Default settings are underlined.

ending on the input source.

Setting items	Setting details
Input Mode Set the audio input modes for the different input sources. It is normally recommended to set the audio input mode to "Auto".	 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 at "Input Assign" (page 101). * "Digital" can be set for input sources for which "DIGITAL" is assigned at "Input Assign" (page 101). * If the input source is set to "GAME" or "TV", it cannot be set to "Analog". • When digital signals are properly input, the DIG indicator lights on the display. If the DIG indicator does not light, check the digital input connector assignment and the connections. • If "HDMI Control" is set to "ON" and a TV compatible with the ARC is connected via the HDMI MONITOR connectors, the input mode whose input source is "TV" is fixed to ARC.
Decode Mode Set the audio decode mode for input source.	Auto : Detect type of digital input signal and decode and play automatically. PCM : Decode and play only PCM input signals. DTS : Decode and play only DTS input signals.
BD DVD SAT GAME TV CD	 This item can be set for input sources for which "HDMI" or "DIGITAL" is assigned at "Input Assign" (13 page 101). Normally set this mode to "Auto". Set "PCM" and "DTS" when inputting the corresponding input signal.

Rename

Change the display name of the selected input source.

Setting items	Setting details	
Rename Change the display name of the selected input source.	 Up to eight characters can be input. For character input, see <u>page 78</u>. 	
Default The input source name is returned to the default setting.	 Yes : Reset to the defaults. No : Do not reset to the defaults. If you select "Default" and press ENTER, the message "Return settings to the default?" is displayed. Select "Yes" or "No", and then press ENTER. 	

Source Level (Audio)

• 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 (0dB)

F 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" (mpage 101).







Input Setup

Playback Mode

Aa

GUI

Default settings are underlined.

□ Input source : "NET/USB"

-	
Setting items	Setting details
Repeat	All : All files are played repeatedly (All files in a Folder or an album are
Make settings for repeat	played repeatedly).
mode.	One : A file being played is played repeatedly.
Media Server Napster	OFF : Repeat playback mode is canceled.
USB/iPod	
Random	ON : Enable random playback.
Make random mode	OFF : Disable random playback.
settings.	
Media Server Napster	
USB/iPod	

Still Picture

Default settings are underlined.

Make settings for playing back still picture images.

Setting items	Setting details
Slide Show Make slide show settings.	<u>ON</u> : Display still picture images in a slide show. OFF : The slide show is not played back.
NET/USB	
Interval Set the time for displaying a single image when playing back images in the slide show.	<u>5s</u> – 60s
NET/USB	









Other settings

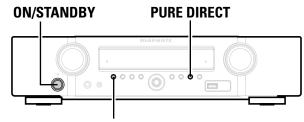
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Remote control settings

When you connect a remote control receiver unit (purchased separately) to the REMOTE CONTROL IN connector 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

Disabling the sensor function of the remote control unit

When the main unit is in standby mode, press **ON/STANDBY** while holding down **SURROUND MODE** and **PURE DIRECT** on the main unit.

"Remote Lock:ON" is shown on the display, and the infrared light receiving function is disabled.

D Enabling the remote sensor function

When the main unit is in standby mode, press **ON/STANDBY** while holding down **SURROUND MODE** and **PURE DIRECT** on the main unit.

The infrared light receiving function on the main 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 unit.









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 devices

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GUI

Press the input source select button (page 22). 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.

ect	
ote	LEARN SEND O O
the	SOURCE SET STANDBY ON
	(DISP) (DIRECT) (A/B) (PARTY)
ice	(P1) (P2) (P3)
ote	BD DVD SAT TV
ice de	(NET/) CD (TUNER (M-XP)
се	(Z2) (Z3) (AMP)
	SOURCE SURROUND MUTE VOLUME

Input course	Input	Operation mode
Input source select button	source of this unit	Devices controllable with the remote control unit
BD*	BD	Device registered on the BD button
DVD *	DVD	Device registered on the DVD button
SAT *	SAT	Device registered on the SAT button
* ٧٣	ΤV	Device registered on the TV button
(NET/ USB	NET/USB	 Network function iPod or USB memory device connected to the USB port
CD	CD	marantz CD player
TUNER	TUNER	Radio of this unit
(M-XP)	M-XPort	Device registered on the M-XP button

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

When \fbox is pressed, the AMP-operation mode starts automatically.

NOTE

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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 setting the channel level of the unit by pressing CH LVL.
- For performing direct playback.
- For switching Dynamic Volume[®] settings.
- For using the Video Select function.
- For using the sleep timer function.
- For switching the M-DAX function.
- For directly selecting "AUTO" and "STEREO" of the listening modes.
- For using the test tone function.
- For using the HT-EQ function.

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 (🕼 page 26)
- TUNER (2 page 32)

Basic version



Registering preset codes

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GUI

	players or TVs made by different manufacturers.	Th
	NOTE	1
	 No preset codes other than BD, DVD, SAT and TV can be registered. In the factory settings, remote control codes for all marantz products are registered. 	2 (1 Se
I	Buttons used for operating the devices	Se
	 SOURCE I / ウ For switching power of each device on or off. △ ▽ ⊲ ▷, ENTER 	7
	For menu operation of each device. 3 MENU, SHIFT/TOP MENU	
	For displaying the menu of each device.	_
	 ④ II, ►, ■, I◄<, ►►I, ◄<, ►► ⑤ Number button (0 – 9, +10) ⑥ PRESET +, PRESET – 	2
	⑦ TV I/ () , TV INPUT For operating a TV This button is enabled in any mode.	
	For details on operation with the remote control unit, see pages <u>26, 28, 32, 38, 40, 42, 45, 109, 110</u> .	lf
		th

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

Registering preset codes

The following two methods can be used for registering the reset code.

SET

BD DVD SAT (TV)

789

4 5 6

ON

① Entering a 4-digit code

2) Scanning the code table

1) Entering a 4-digit code

See the preset code list table for the code to be input.

Press and hold down the input source select buttons for the appliance to control, and press SET until the SEND indicator blinks.

2 Press the 4-digit code for the appliance using 0 - 9 (code table at the end of this manual).

When the procedure is successful, the LEARN indicator blinks twice.

NOTE

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

2 Scanning the code table

- Switch the power of the appliance to which you want to register the preset code to ON.
 Press and hold down the input
- source select buttons for the appliance to control, and press SET until the SEND indicator blinks.
- 3 Aim the remote control at the appliance and slowly alternate between pressing SOURCE ▲ and SOURCE 1/(b) for the appliance.
- **4** When the power of the appliance that you want to register has turned off, release the button.
- 5 Press ENTER. When the proce
- When the procedure is successful, the LEARN indicator blinks twice.



See overleaf

SOURCE SET

SOURCE

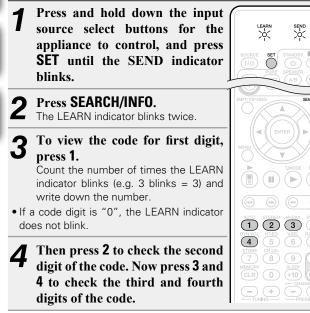
ON



Check the registered preset code

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GUI



2014411000		
	vn below are registered for ngs can be changed accor	
source s	d hold down the inpu elect buttons for th e to control, and pre- il the SEND indicate	
code (4 below.	ne appropriate pres digits) from the tab I indicator blinks twice.	(1)(2)
Input source select buttons	Category	Brand
BD	Blu-ray Disc player	marantz
DVD	DVD player	marantz

		TUNING -	
out source select buttons	Category	Brand	Preset code
BD	Blu-ray Disc player	marantz	5000
DVD	DVD player	marantz	2000
τν	Television	marantz	1000
SAT	Satellite set top box	marantz	4000

NOTE

After this procedure, the selected source reset to its initial code.

source button devices to be

Registering preset codes

(-) (+

ON



Operating devices

Aa

GUI

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

(M-XP)

Press the input source select button to which the preset code for the device you want to operate has been registered (<u>page 106</u>).	LEARN O SOURCE SET (1/0) PURE (DISP OREOT)
2 Operate the device.	BD DVD
• For details, refer to the device's operating instructions.	NET/ USB CD

🗅 Blu-ray Disc player / HD-DVD player /
DVD player / DVD recorder operation

	Operation buttons	Function
SARN SEND O O	SOURCE I / 🕁	Power on/standby
	SHIFT/TOP MENU	Top menu
PURE SPEAKER (WITY)		Cursor operation
P1 P2 P3	ENTER	Enter
DVD SAT (1)	MENU	(Popup) Menu
	II	Pause
(Z2) (Z3) (AMP)	•	Playback
AMP OSD +		Stop
		Auto search (cue)
		Manual search
ENTER		(fast-reverse/fast-forward)
	0 – 9	Select title, chapter or channel
	0-5	selection
• • •	TV I/ტ	TV power on/standby
230	10 17 0	(Default : marantz)
56	TV INPUT	Switch TV input (Default : marantz)
(8) (9) (10)		

CD player operation

	•
\square	Operation buttons
LEARN SEND O O	SOURCE I / ധ
DISP (1980) A/B (NRTY)	•
(C) (P) (P2 (P3)	
	TV I/ტ
	TV INPUT

marantz RC014SR

	Basic versior
Function	C V
Power on/off	ers
Pause	ğ
Playback	<u> </u>
Stop	
Auto search (cue)	
Manual search	_
(fast-reverse/fast-forward)	Ad
TV power on/standby	Advanced
(Default : marantz)	
Switch TV input (Default : marantz)	ed

See overleaf

P

Operating devices

TV operation

SOURCE

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GUI

	Operation buttons	Function
	SOURCE I / ഗ്	TV power on/standby (Default : marantz)
PMETY	CLR	Clear the inputting
	TV I/ტ	TV power on/standby (Default : marantz)
1449)	TV INPUT	Switch TV input (Default : marantz)
	CHANNEL +, –	Switch channels (up/down)

	Operation buttons	Function
SEND O	SOURCE I / ഗ്	Power on/standby
		Cursor operation
D PARTY	ENTER	Enter
	0 - 9	Channel selection
\mathbb{O}	CLR	Clear the inputting
	TV I/ტ	TV power on/standby (Default : marantz)
	TV INPUT	Switch TV input (Default : marantz)
IJ	CHANNEL +, -	Switch channels (up/down)

marantz RC014SR

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Advanced version





Operating learn function

- This remote control unit is capable of learning and storing codes used by other remote controls that you already own.
- If the AV device is not a marantz device, or if the device does not operate even when the preset code is registered, use the learning function. Remote codes for different devices can be remembered for use by the marantz remote control included with this device.
- This remote control unit is capable of learning around 60 codes.

Learning procedure

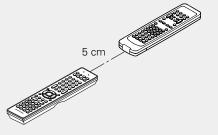
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GUI

Place the marantz remote control and remote control from the other device approximately 5 cm apart, with the remote control signal transmission sections facing each other.



Press and hold down SET and SURROUND until the LEARN indicator blinks.

Press input source select buttons (BD, DVD, SAT, TV,

or **CD**) to select the input source.

Select the button to be learned. The LEARN indicator lights.

NOTE

- The learning function is unavailable for all SOURCE I / d and DISP in any mode.
- The learning function is unavailable for all buttons in TUNER mode, NET/USB 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.

- 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 the SEND indicator blinks once, repeat this step.
- 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.

NOTE

If the LEARN indicator flashes when the SEND indicator is lit, then the button cannot be learned.

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

ON (BD (DVD (SAT) (TV) (CD)

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

- The learning function is unavailable for all buttons in TUNER mode, AMP mode, NET/USB mode and M-XP mode.
- The learning procedure does not operate correctly if the batteries have become worn.
- If no buttons are pressed for approximately 1 minutes while in the LEARN mode, the remote control unit automatically exits from the LEARN mode.



Registering preset codes

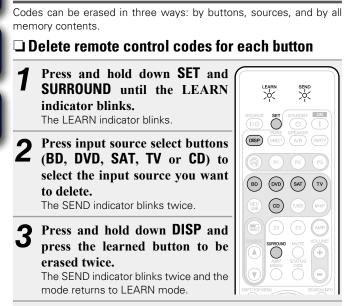
DISP

SET

STANDBY ON



Advanced version



Delete saved remote control codes

To return the normal mode, press SET.

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GUI

Delete remote control codes for each input source

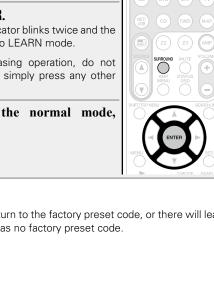
- Press and hold down SET and SURROUND until the LEARN indicator blinks. The LEARN indicator blinks. 0 Press and hold down **DISP** and press the learned input source select buttons (BD, DVD, SAT, TV, or CD) to be erased twice. The LEARN indicator lights.
- 3 Press ENTER.
 - The SEND indicator blinks 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.

•	sources
LEARN SEND V V V DURCE SET STANDBY 03 (5) (1)	1 Press and hold down SET and SURROUND until the LEARN indicator blinks. The LEARN indicator blinks.
DISP DIFECT A/B (PATTY)	2 Press and hold down DISP and press ON I and STANDBY (). The LEARN indicator lights.
	3 Press ENTER. The SEND indicator blinks twice and the mode returns to LEARN mode.
AMP STATUS MENU OSD	• To cancel the erasing operation, do not press ENTER , and simply press any other button.
	4 To return the normal mode, press SET.

NOTE

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



Information

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

- Part names and functions page 114
- Other information page 119
- Troubleshooting
 <u>page 128</u>
- Specifications 27 page 133
- Index 😰 page 134
- List of preset codes page 136



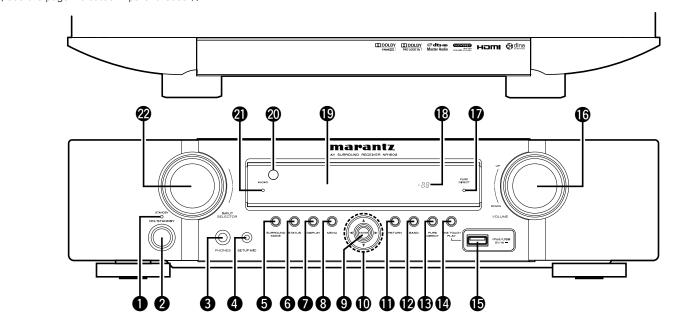
Part names and functions

Front panel

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

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Power indicator (STANDBY) ······ (

2 Power operation button

(ON/STANDBY) (A 5)

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

Headphones jack (PHONES)

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

NOTE

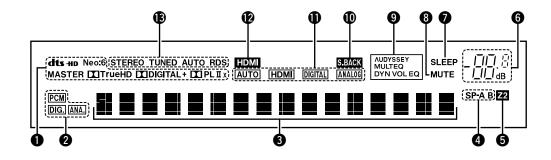
To prevent hearing loss, do not raise the volume level excessively when using headphones.

SETUP MIC jack
SURROUND MODE button (46, 105)
STATUS button
DISPLAY button (71, 97)
MENU button (71, 96, 98)
ENTER button
Cursor buttons (△▽⊲ ▷) (<u>71</u> , <u>77</u> , <u>78</u> , <u>80</u> , <u>86</u> , <u>99</u>)
RETURN button (80, 86, 99)
BAND button

PURE DIRECT button (46)
ONE TOUCH PLAY button
iPod/USB port
VOLUME control knob (23)
PURE DIRECT indicator (46)
Master volume indicator
Display
Remote control sensor
M-DAX indicator
INPUT SELECTOR knob (23)

Display

GU



Decoder indicators

These light when the respective decoders are operating.

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 according to the setting of the front A and B speakers.

5 Multi-zone indicators

This lights up when ZONE2 (separate room) power is turned on (127 page 73).

6 Master volume indicator

Sleep timer indicator

This lights when the sleep mode is selected (2 page 63, 74).

8 MUTE indicator

This lights when the mute mode is selected (page 23).

9 Audyssey[®] indicators

Light up as follows, depending on the setting of "MultEQ[®]" ($\[mathbb{Tp}]_{page} 82$), "Dynamic EQ[®]" ($\[mathbb{Tp}]_{page} 83$) and "Dynamic Volume[®]" ($\[mathbb{Tp}]_{page} 83$).

 $\begin{array}{c} \hline \textbf{AUDYSSEY} \\ \textbf{MULTEQ} \\ \textbf{DYN VOL} \end{array} When "MultEQ^{\textcircled{B}"}, "Dynamic EQ^{\textcircled{B}"} and "Dynamic Upper provide the second second$

AUDYSSEY MULTEQ When "MultEQ[®]" is "ON" and "Dynamic EQ[®]" and "Dynamic Volume[®]" are "OFF".

Surround back indicator

This lights when audio signals are being output from the surround back speakers (2 page 87).

Input mode indicators

Set the audio input modes for the different input sources (177 page 103).

HDMI indicator

This lights when playing using HDMI connections.

(B Tuner reception mode indicators

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

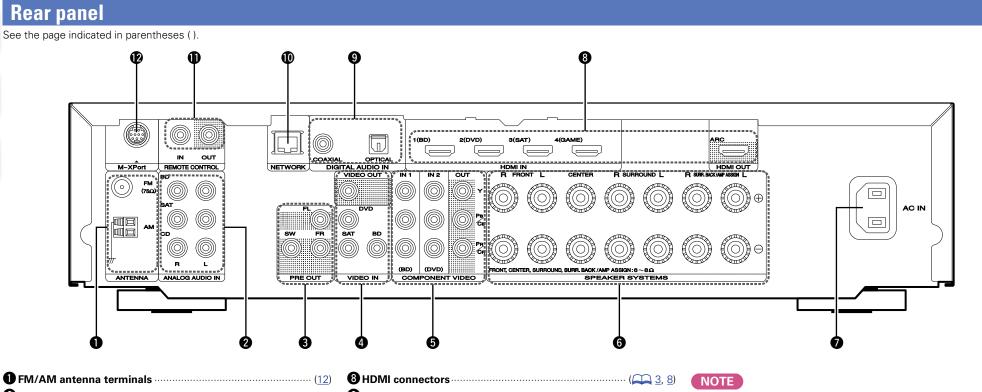
STEREO : In the FM mode, this lights up when receiving stereo broadcasts.

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

AUTO : Lights up when in the auto tuning mode.

RDS : Lights up when receiving RDS broadcasts.





2 Analog audio connectors (<u>9</u> , <u>10</u> , <u>12</u>)
3 PRE OUT connectors
(<u>AA</u> <u>6</u> , <u>53</u> , <u>54</u> , <u>55</u> , <u>56</u> , <u>57</u> , <u>58</u>)
4 VIDEO connectors
COMPONENT VIDEO connectors (9, 10)
6 Speaker terminals (<u>A</u> <u>6</u> , <u>53</u> , <u>54</u> , <u>55</u> , <u>56</u> , <u>57</u> , <u>58</u>)
7 AC inlet (AC IN) (2)

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8 HDMI connectors
Digital audio connectors (<u>10</u> , <u>12</u>)
NETWORK connector (14)
REMOTE CONTROL connectors (61)
M-XPort connector (13)

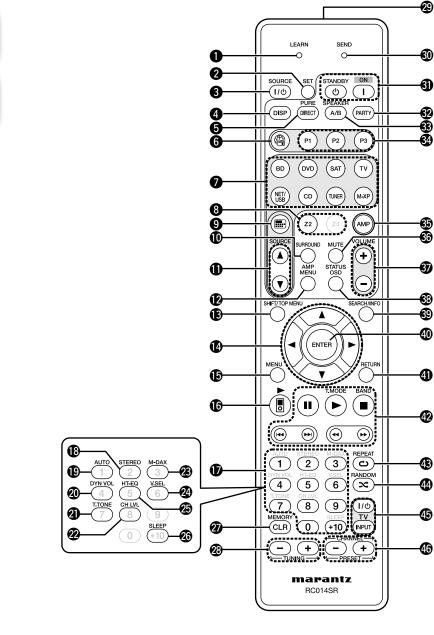
Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit. Advanced version

Remote control unit

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GUI

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



1 LEARN indicator	PARTY button
2 SET button	SPEAKER A/B button
3 SOURCE power button	Preset channel buttons
(I / ψ)	(P1 – P3)
4 Display button (DISP)(97)	🕄 AMP button
9 PURE DIRECT button	🕄 Muting button (MUTE)
6 Internet radio button ((P)	Volume control buttons
7 Input source select buttons	(VOLUME +, –)·
8 Zone mode buttons (Z2, Z3)	STATUS OSD button
9 Source select menu button ()	SEARCH/Information (INFO
U SURROUND button	•
Source select buttons	ENTER button
(SOURCE ▲ ▼)	RETURN button
(2) AMP MENU button	System buttons
(B) SHIFT/TOP MENU button	• Pause button (1
Cursor buttons	 Play button (►)
(△▽◁ ▷) ·······(<u>77</u> , <u>78</u> , <u>80</u> , <u>86</u> , <u>99</u>)	 Stop button (■)
(109) MENU button	• Skip buttons (I
(¹ / ₂) iPod play button (¹ / ₂) ►)	Search buttons (◄◄, ►►)
Number buttons	FM/AM band switching but
	• Tuning mode button (T.MC
B STEREO button (46)	④ REPEAT button (心)
(46)	
Audyssey Dynamic Volume [®] button (D)	${igoplus}$ RANDOM button (X)
(DYN VOL)	•
Test tone button (T.TONE) (89)	TV operation buttons
Channel level button (CH LVL)	(TV I / 也 / INPUT)
B M-DAX button (84) (84)	(+, -) ······
Video select button (V.SEL)	
(81)	NOTE
3 SLEEP button (<u>63</u> , <u>74</u>)	The Z3 button cannot be used.
2 Clear (CLR)/MEMORY button (29, 36, 37, 110)	Γ
W TUNING buttons (+, -)	L
Remote control signal transmitter	
(107 , 111)	
Over buttons (ON, STANDBY) (

Y button
KER A/B button
t channel buttons P3)(<u>36</u> , <u>37</u>)
button(<u>16</u> , <u>59</u> , <u>64</u> , <u>106</u>)
g button (MUTE) (<u>23</u> , <u>73</u>)
ne control buttons JME +, –)·
US OSD button
CH/Information (INFO) button
R button (<u>77</u> , <u>78</u> , <u>80</u> , <u>86</u> , <u>99</u>)
RN button
m buttons (26, <u>28, 38, 40, 42, 45, 109, 110</u>) se button (II)
button (►) button (■)
buttons (I◀◀, ▶▶I) ch buttons (◀◀, ▶▶)
AM band switching button (BAND) ng mode button (T.MODE)
AT button (Ċ)
eration buttons (
INEL/PRESET buttons



P

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Information

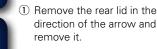
Inserting the batteries

D

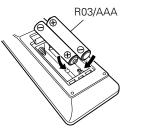
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GU



② Load the two batteries properly as indicated by the marks in the battery compartment.



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 Θ 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.
- The remote control unit may function improperly if rechargeable batteries are used.

Operating range of the remote control unit

Remote control unit

Point the remote control unit at the remote sensor when operating it.

Approx. 7 m

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.
- When using 3D video devices that transmit radio communication signals (such as infrared signals etc) between the various units (such as the monitor, 3D glasses, 3D transmitter unit etc), the remote control unit may not operate due to interference from those radio communication signals. If this occurs, adjust the direction and distance of the 3D communication for each unit, and check that the remote control unit operation is not affected by these signals.

Other information

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- □ Trademark information (☞ page 119)
- □ Surround (™ page 120)
- **□** Relationship between video signals and monitor output (page 124)
- □ Explanation of terms (2) page 125)

Trademark information

This product uses the following technologies:



Manufactured under license from Dolby Laboratories. "Dolby" "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Cdts-++D **Master Audio**

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.



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"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone, may affect wireless performance.

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Surround

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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.

© This indicates the audio output channels. The output channels depend on the settings of "Speaker Config." (127 page 87).

			Channe	l output			Surr.Parameter (12 page 81)					
Surround mode (1277 page 46)	Front Center Surround Surround Back F		Front Height L/R	Subwoofer	HT-EQ (1237 <u>page 81</u>)	DRC *4 (ICP page 81)	D. Comp *5 (1297 page 81)	LFE *6 (1297 page 81)				
DIRECT/PURE DIRECT (2channel)*1	0					⊚*3		0	0			
DIRECT/PURE DIRECT (Multi-channel) $*1$	0	0	0	©*2	©*2	0		0	0	0		
STEREO	0					O		0	0	0		
MULTI CH IN	0	O	O	0	\bigcirc	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	O		O	0	0	0			
DOLBY DIGITAL	0	O	0	0	O	O	0		0	0		
DOLBY DIGITAL Plus	0	O	0	0	0	O	0		0	0		
DOLBY TrueHD	0	O	O	0	O	O	0	0		0		
DTS SURROUND	0	O	0	0	0	O	0		0	0		
DTS 96/24	0	O	O	0	O	O	0		0	0		
DTS-HD	0	O	0	0	O	O	0		0	0		
DTS Express	0	O	O	0	O	O	0		0	0		
MULTI CH STEREO	0	O	O	0	O	O	0	0	0	0		
VIRTUAL	0					O		0	0	0		

*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.

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

*3 Only when "Subwoofer Mode" is set to "LFE+Main" (17 page 88), sound is output from the subwoofer.

*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.



Surround

Basic version

			Parameter (🎓 pa GIC II/IIx Music m		NEO:6 Music mode only	Tone	Audyssey	M-DAX			
Surround mode (1797 page 46)	Height Gain *7 (🏹 page 81)	Panorama (🏹 page 81)	Dimension (🛯 page 81)	C.Width (CP page 81)	C.Image (CP page 81)	* 8 (≇ <u>7 page 82</u>)	MultEQ [®] (🖙 <u>page 82</u>)	Dynamic EQ [®] ★10 (€ <u>77 page 83</u>)	Dynamic Volume [®] *11 (M <u>Ppage 83</u>)	*12 (K <u>) page 84</u>)	
DIRECT/PURE DIRECT (2channel)*1											
DIRECT/PURE DIRECT (Multi-channel)*1											
STEREO						0	0	0	0	0	
MULTI CH IN	0					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	0		
DOLBY DIGITAL Plus	0					0	0	0	0		
DOLBY TrueHD	0					0	0	0	0		
DTS SURROUND	0					0	0	0	0		
DTS 96/24	0					0	0	0	0		
DTS-HD	0					0	0	0	0		
DTS Express	0					0	0	0	0		
MULTI CH STEREO						0	0	0	0	0	
VIRTUAL						0	0	0	0	0	

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*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
*7 This item can be set when surround mode is "PLIIz" or PLIIz decoder is used.
*8 This item cannot be set when "Dynamic EQ[®]" ((Tpage 83) is set to "ON".
*9 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.
*10 This item cannot be set when "MultEQ[®]" ((Tpage 82) is set to "OFF" or "Manual".
*11 This item cannot be set when "Dynamic EQ[®]" ((Tpage 83) is set to "OFF".
*12 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

U 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

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GUI

○ This indicates the selectable surround mode.

			Input signal types and formats														
		PCM DTS-HD DTS D0LBY						DOLBY	DIGITAL								
Surround mode (1777 page 46)	NOTE	ANALOG	PCM (multi ch)	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/3ch)	
DTS SURROUND																	
DTS-HD MSTR					0												
DTS-HD HI RES						0											
DTS ES DSCRT6.1	*1*3							0									
DTS ES MTRX6.1	*1*3								0								
DTS SURROUND								0	0	0							
DTS 96/24											0						
DTS (-HD) + PLIIx MOVIE	*2*3				0	0	0		0	0	0						
DTS (-HD) + PLIIx MUSIC	*1*3				0	0	0		0	0	0						
DTS (–HD) + PLIIz	*4				0	0	0	0	0	0	0						
DTS EXPRESS							0										
DTS (-HD) + NEO:6	*1*3				0	0	0		0	0	0						
DTS NEO:6 CINEMA		0		0													0
DTS NEO:6 MUSIC		0		0													0
OLBY SURROUND																	
DOLBY TrueHD												0					
DOLBY DIGITAL+													0				
DOLBY DIGITAL EX	*1*3													0	0	0	
DOLBY (D+) (HD) +EX	*1*3											0	0				
DOLBY DIGITAL														0	0	0	
DOLBY (D) (D+) (HD) +PLIIx MOVIE	*2*3											0	0	0	0	0	
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1*3											0	0	0	0	0	
DOLBY (D) (D+) (HD) +PLIIz	*4											0	0	0	0	0	
DOLBY PRO LOGIC IIx MOVIE	*1*3	0		0													0
DOLBY PRO LOGIC IIx MUSIC	*1*3	0		0													0
DOLBY PRO LOGIC IIx GAME	*1*3	0		0													0
DOLBY PRO LOGIC IIz	*4	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
DOLBY PRO LOGIC		0		0													0

*1 If "Speaker Config." - "S.Back" (page 87) is set to "None", this surround mode cannot be selected.
*2 If "Speaker Config." - "S.Back" (page 87) is set to "1spkr" or "None", this surround mode cannot be selected.
*3 This surround mode can be selected when "Amp Assign" (page 87) is set to "NORMAL".

*4 If "Speaker Config." - "F.Height" (2 page 88) is set to "None", this surround mode cannot be selected.

- 16-																		Surround
										Input signa	I types and fo	rmats						
				PC	M	DTS	S-HD	DTS				DC	LBY	DOLBY DIGITAL				
Aa	Surround mode (🖅 page 46) NOTE	ANALOG	PCM (multi ch)	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/3ch)	DOLBY DIGITAL (2ch)	
	MULTI CH IN																	
YO€O	MULTI CH IN			0														
	MULTI CH IN + PLIIx MOVIE	*2*3		0														
	MULTI CH IN + PLIIx MUSIC	* 1 * 3		0														
	MULTI CH IN + PLIIz	*4		0														
GUI	MULTI CH IN + Dolby EX	* 1 * 3		0														
	MULTI CH IN 7.1	*3		0														
	DIRECT		0	0	\bigcirc	0	0	0	0	0	0	0	0	0	0	\bigcirc	0	0
	PURE DIRECT		0	0	\bigcirc	0	0	0	0	0	0	0	0	0	0	0	0	0
	MULTI CH STEREO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VIRTUAL		0	0	\bigcirc	0	0	0	0	0	0	0	0	0	0	0	0	0
	STEREO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*1 If "Speaker Config." - "S.Back" (Impage 87) is set to "None", this surround mode cannot be selected.
*2 If "Speaker Config." - "S.Back" (Impage 87) is set to "1spkr" or "None", this surround mode cannot be selected.
*3 This surround mode can be selected when "Amp Assign" (Impage 87) is set to "NORMAL".
*4 If "Speaker Config." - "F.Height" (Impage 88) is set to "None", this surround mode cannot be selected.

Basic version

Advanced version

123

Relationship between video signals and monitor output

		Input connector			Output connector		Menu displayed				
	HDMI	COMPONENT	VIDEO	HDMI	COMPONENT	VIDEO	HDMI	COMPONENT	VIDEO		
	×	×	×	×	×	×	Only the menu is displayed	×	×		
Aa	×	×	0	○ <vide0></vide0>	×	○ <video></video>	O (VIDEO)	×	imes (VIDEO)		
66	×	0	×	○ <component></component>	○ <component></component>	×	O (COMPONENT)	imes (component)	×		
	×	0	0	○ <component></component>	○ <component></component>	○ <video></video>	O (COMPONENT)	imes (component)	imes (VIDEO)		
	0	×	×	⊖ <hdmi></hdmi>	×	×	O (HDMI)	×	×		
_	0	×	0	⊖ <hdmi></hdmi>	×	○ <video></video>	O (HDMI)	×	imes (VIDEO)		
GUI	0	0	×	⊖ <hdmi></hdmi>	○ <component></component>	×	O (HDMI)	imes (component)	×		
	0	0	0	○ <hdmi></hdmi>	○ <component></component>	⊖ <video></video>	O (HDMI)	imes (component)	imes (VIDEO)		

Video signal input present
 X No video signal input

 \bigcirc <> The input signal between the <> marks is output. No video signal output X

 \bigcirc () Superimposed on the picture indicated in (). \times () Only the picture in () is output.

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The main zone video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.

NOTE

• If you operate the menu while playing back 3D video content or computer's resolution (e.g. VGA), the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.

• This unit does not show the status display while playing back 3D video content or computer's resolution (e.g. VGA).



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Explanation of terms

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.

AirPlay

AirPlay sends (plays) contents recorded in iTunes or on an iPhone/iPod touch/iPad to a compatible device via the network.

App Store

App Store is a site that sells application software for such devices as the iPhone or iPod touch, and is operated by Apple Inc.

Audyssey Dynamic EQ[®]

Dynamic $EQ^{(\!R\!)}$ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic $EQ^{(\!R\!)}$ works in tandem with Audyssey Mult $EQ^{(\!R\!)}$ to provide well-balanced sound for every listener at any volume level.

Audyssey Dynamic Volume[®]

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®

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

If you connect the unit 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.

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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.

DLNA

DLNA and DLNA CERTIFIED are trademarks and/ or service marks of Digital Living Network Alliance. Some contents may not be compatible with other DLNA CERTIFIED™ products.

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 device.

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

Dolby Pro Logic II 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 channels 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 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.

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[™] Discrete 6.1

DTS-ES[™] 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.

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Advanced version

DTS-ES™ Matrix 6.1

DTS-ES[™] 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

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GUI

DTS Express is an audio format supporting low bit rates (max. 5.1 channels, 24 to 256 kbps). **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. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS NEO:6[™] Surround

DTS NEO:6[™] 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.



FLAC

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality. The FLAC license is as shown below.

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HDCP

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

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.

iTunes

iTunes is the name of the multimedia player provided by Apple Inc. It enables management and playback of multimedia contents including music and movies. iTunes supports many main file formats including AAC, WAV, and MP3.

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.

MAIN ZONE

М

The room where this unit is placed is called the $\ensuremath{\mathsf{MAIN}}$ ZONE .

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".

Pairing

Pairing is an operation required for settings to connect two Bluetooth devices. Pairing enables Bluetooth devices to access each other. **Progressive (sequential scanning)**

rogressive (sequential scanning

Ρ

This is a scanning system of video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and bleeding.

Protection Circuit

This is a function to prevent damage to devices 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.

S Sampling frequency

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 Ω (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. **Basic version**

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GUI

vTuner

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This is a free online content server for Internet radio. Note that usage fees are included in upgrade costs.

For inquiries about this service, visit the vTuner site below.

vTuner website: <u>http://www.radiomarantz.com</u>

This product is protected by certain intellectual property rights of Nothing Else Matters Software and BridgeCo. Use or distribution of such technology outside of this product is prohibited without a license from Nothing Else Matters Software and BridgeCo or an authorized subsidiary.

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.

Windows Media DRM

W

This is a copyright protection technology developed by Microsoft.

Content providers are using the digital rights management technology for Windows Media contained in this device (WM-DRM) to protect the integrity of their content (Secure Content) so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content (WM-DRM Software). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (Secure Content Owners) may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.

Explanation of terms

Windows Media Player Ver.11 or later

This is a media player distributed free of charge by Microsoft Corporation.

It can play playlists created with Ver.11 or later of Windows Media Player, as well as WMA, DRM WMA, WAV, and other files.

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media[®] Player Ver.7, 7.1, Windows Media[®] Player for Windows[®] XP and Windows Media[®] 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.

Х

x.v.Color

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

ZONE2

This unit can operate in a room other than the room where this unit is placed (MAIN ZONE) (ZONE2 playback). The room for ZONE2 playback is called ZONE2.

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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 owner's manual?

3. Are the other devices 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.

GUI [General]

Symptom	Cause/Solution	Page
Power does not turn on.	• Check whether the power plug is correctly inserted into the power outlet.	5
	• 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.	<u>126</u>
Display is off.	• Set "Display" on the menu to something other than "OFF".	<u>97</u>
The power indicator is blinking red in intervals of	• The temperature inside the unit has risen. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently.	-
approximately 2 seconds.	• Please re-install this unit in a place having good ventilation.	-
The power indicator is blinking red	• Please use speakers which have the specified impedance.	<u> </u>
in intervals of approximately 0.5 seconds.	• 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.	<u> </u>
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.	<u>132</u>

(HDMI)		
Symptom	Cause/Solution	Page
No audio is	Check the connection of the HDMI connectors.	<u>8</u>
output with HDMI connection.	 When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "AMP". 	<u>90</u>
	 When outputting HDMI audio from a TV, set "HDMI Audio Out" on the menu to "TV". 	<u>90</u>
No video is	Check the connection of the HDMI connectors.	<u>8</u>
output with HDMI	• Set the input source to match the connected HDMI connector.	<u>8</u> , <u>22</u>
connection.	 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. 	7
When the following operations are performed on devices compatible with HDMI control, the same operations occur on this unit. • Power ON/OFF • Switching audio output devices	 Set "HDMI Control" in the menu to "OFF". Furthermore, if you do not want to link the power off operation with devices compatible with HDMI control, set "P.Off Control" in the menu to "OFF". 	<u>62</u> , <u>90</u>
Adjust volumeSwitch input source		

[Video]

Symptom	Cause/Solution	Page
No picture appears.	Check the TV connection.Set the TV input correctly.	$\frac{3}{2}$

Basic version

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Symptom	Cause/Solution	Page
Audio is not output.	Check the connections for all devices.	<u>8, 9, 10,</u> 11,12,13,
	• Check the speaker connections and configurations.	<u>11,12,13,</u> <u>6</u> , <u>87,88</u>
	• Check whether the audio device power is turned on.	_
	Adjust the master volume.	<u>23, 73</u>
	Cancel the mute mode.	<u>23, 73</u>
	Select a suitable input source.	<u>22, 73</u>
	Select a suitable input mode.	<u>103</u>
	• Disconnect the headphones. No sound is output from the speakers when headphones are connected.	<u>114</u>
No sound is produced from surround speaker.	Check if the surround speakers are connected to the SURROUND terminals.	-
No sound is produced from	• Check if "Amp Assign" is set appropriately in order to output audio from the surround back speakers.	<u>87</u>
surround back speaker.	• Set "Speaker Config." – "S.Back" on the menu to something other than "None".	<u>87</u>
	• Set the surround mode to something other than "STEREO" and "VIRTUAL".	<u>46</u>
No sound is produced from front	• Check if "Amp Assign" is set appropriately in order to output audio from the front height speakers.	<u>87</u>
height speaker.	• Set "Speaker Config." – "F.Height" on the menu to something other than "None".	<u>88</u>
No sound is	Check the subwoofer connections.	<u>6</u> ,
produced from		<u>53, 54, 58</u>
subwoofer.		<u>56, 57, 5</u>
	• Turn on the subwoofer's power.	-
	• Set "Speaker Config." – "Subwoofer" on the menu to "Yes".	<u>87</u>
	 If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output 	<u>87</u> , <u>88</u>
	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".	<u>103</u>

Symptom	Cause/Solution	Page
Dolby TrueHD, DTS- HD, Dolby Digital Plus audio is not output.	Make HDMI connections.	<u>8</u>
Dolby PLII mode or DTS NEO:6 mode cannot be selected.	 Check that "Speaker Config." – "Center" or "Surround" is set to other than "None". If the speaker system is 2.0/2.1ch, this surround mode cannot be selected. 	<u>87</u>
	 When headphones are used, Dolby PLII or DTS NEO:6 cannot be selected. 	-
Audyssey MultEQ [®] , Audyssey Dynamic	• Switch the surround mode to other than "DIRECT" or "PURE DIRECT".	<u>46</u>
EQ [®] and Audyssey Dynamic Volume [®] cannot be selected.	 When headphones are used, MultEQ[®], Dynamic EQ[®] and Dynamic Volume[®] cannot be selected. 	-
Dynamic EQ [®] and Dynamic Volume [®] cannot be selected.	• Run Audyssey [®] Auto Setup.	<u>15</u> , <u>59</u>
M-DAX cannot be selected.	 Check that an analog signal or PCM signal (fs=44.1/48 kHz) is input. For playback of multichannel signals such as Dolby Digital or DTS surround, M-DAX cannot be used. 	<u>84</u>
	• Switch the surround mode to other than "DIRECT" or "PURE DIRECT".	<u>46</u>
[Radio]		
Symptom	Cause/Solution	Page
Reception fails, or	Change the antenna orientation or position.	<u>12</u>
there is a lot of noise	• Separate the AM loop antenna from the unit.	<u>12</u>
or distortion.	Use an FM outdoor antenna. Separate the entenne from other connection college	<u>12</u>
	• Separate the antenna from other connection cables.	<u>12</u>

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Information

Basic version

Advanced version

[Internet radio / Media server / iPod / USB memory device / Flickr / Last.fm / Napster]

	Internet radio / Medi	a server / IPod / USB memory device / Flickr / Last.fm / Napster,	
1 Ch	Symptom	Cause/Solution	Page
	When a USB memory device is	 The set cannot recognize a USB memory device. Check the connection. 	<u>11</u>
Aa බබ	connected, "USB" is not displayed on the menu.	• A USB memory device not conforming to mass storage class or MTP standards is connected. Connect a USB memory device conforming to mass storage class or MTP standards.	-
VOFO Y		• A USB memory device that the set cannot recognize is connected. This is not a malfunction. marantz does not guarantee that all USB memory devices will operate or receive power.	-
GUI		USB memory device is connected via USB hub. Connect the USB memory device directly to the USB port.	-
	Files on a USB memory device cannot be played.	• USB memory device is in format other than FAT16 or FAT32. Set the format to FAT16 or FAT32. For details, refer to the USB memory device's operating instructions.	-
		 USB memory device is divided into multiple partitions. When divided into multiple partitions, only files stored in the top partition can be played. 	-
		 Files are stored in a non-compatible format. Record the files in a compatible format. 	27
		• You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.	<u>27</u>
	The file names are not displayed properly ("", etc.).	• Characters that cannot be displayed are used. This is not a malfunction. On this unit, characters that cannot be displayed are replaced with a "." (period).	_
	Internet radio cannot be played.	• Ethernet cable is not properly connected or network is disconnected. Check the connection status.	<u>14</u>
		 Program is being broadcast in non-compatible format. Only Internet radio programs in MP3 and WMA can be played on this unit. 	<u>33</u>
		• The router's firewall is activated. Check the router's firewall settings.	-
		• Radio station is not currently broadcasting. Choose a radio station that is currently broadcasting.	<u>35</u>
		• IP address is wrong. Check the set's IP address.	<u>95</u>
	Files stored on a computer cannot be	• Files are stored in a non-compatible format. Record in a compatible format.	<u>33</u>
	played.	• You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.	<u>33</u>
		• Set and computer are connected by USB cable. The set's USB port cannot be used for connection to a computer.	-

Symptom	Cause/Solution	Page
Server is not found, or it is not possible	 The computer's or router's firewall is activated. Check the computer's or router's firewall settings. 	-
to connect to the server.	 Computer's power is not turned on. Turn on the power. Server is not running. Launch the server. 	-
	• Set's IP address is wrong. Check the set's IP address.	<u>95</u>
iPod cannot be played.	• Some iPods do not support being used connected directly to the USB port.	<u>11</u>
Cannot connect to preset or favorite	 Radio station is not currently broadcasting. Wait a while before trying again. 	-
radio stations.	 Radio station is not currently in service. It is not possible to connect to radio stations that are no longer in service. 	-
For some radio stations, "Radio station server full" or "Connection down" is displayed and station cannot be connected to.		
Sound is broken during playback.	• Network's signal transfer speed is slow or communications lines or radio station is congested. This is not a malfunction. When playing broadcast data with a high bit rate, the sound may be broken, depending on the communications conditions.	-
Sound quality is poor or played sound is noisy.	• File being played has a low bit rate. This is not a malfunction.	-
Cannot compile Playlist.	• This unit does not respond to playlist compilation. When the playlist is compiled in PC Application, it is registered to "My Library". In this way, the playlist can be played in this unit	-
Cannot delete Tracks, Playlists, Channels registered in "My Library"	• Cannot be done with this unit. Delete from PC Application.	_
Cannot login to Napster. ("Incorrect Username or Password" is displayed.)	Login information is incorrect. Check if the Username for Napster has been properly entered. Re-enter the Password. (Password is not displayed.) http://www.napster.com/choose/index_default.html	<u>34, 44, 95</u>

See overleaf

Advanced version

Basic version

Information





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	[AirPlay]		
1 Ch	Symptom	Cause/Solution	Page
	The AirPlay icon is not displayed	• This unit and the computer or iPhone/iPod touch/iPad are not connected to the same network (LAN). Connect the computer or	<u>14</u>
Aa	in iTunes or on the iPhone/iPod touch/ iPad.	 iPhone/iPod touch/iPad to the same network as this unit. iTunes or the iPhone/iPod touch/iPad do not have firmware that supports AirPlay installed. Update to the latest firmware. 	<u>97</u>
YOFO Y	No sound.	 The volume in iTunes or on the iPhone/iPod touch/iPad is set to the minimum setting. Adjust the volume to the optimum level. This unit is not selected in the screen that is displayed when 	- <u>65</u>
GUI		iTunes or the iPhone/iPod touch/iPad is started. Start iTunes or switch on the iPhone/iPod touch/iPad, click the AirPlay icon in the displayed screen, and select this unit.	

[M-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.	<u>13</u> , <u>126</u>

[Remote Control Unit]

Symptom	Cause/Solution	Page
The set cannot be	• Batteries are worn out. Replace with new batteries.	<u>118</u>
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°.	<u>118</u>
	Remove any obstacle between this unit and the remote control unit.	<u>118</u>
	• Insert the batteries in the proper direction, checking the \oplus and Θ marks.	<u>118</u>
	• 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.	<u>118</u>
	• The operation mode does not match the settings of the device to operate. Check the operation mode.	<u>106</u>

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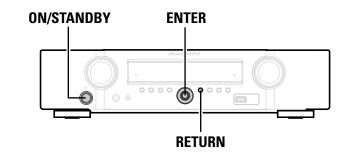
In

Basic version

131

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.



- Turn off the power using **ON/STANDBY**.
- **2** Press **ON/STANDBY** while simultaneously pressing **ENTER** and **RETURN**.
- **3** Once the display starts flashing at intervals of about 1 second, release the two buttons.

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If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.



Specifications

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GUI

Audio section		Tuner section	[FM]	[AM]
Power amplifier			(Note: μV at 75 Ω, 0 dBf = 1 x 10 ⁻¹⁵ W)	
Rated output:	Front:	Receiving Range:	87.5 MHz – 108.0 MHz	522 kHz – 1611 kHz
	50 W + 50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)	Usable Sensitivity:	1.2 μV (12.8 dBf)	18 µV
	Center:	50 dB Quieting Sensitivity:	MONO 2.0 µV (17.3 dBf)	
,	50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)		STEREO 42 µV (34.5 dBf)	
	Surround:	S/N:	MONO 72 dB (IHF–A weighted, DIRECT	
	50 W + 50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)		STEREO 67 dB (IHF-A weighted, DIRECT	í mode)
	Surround back:	Total harmonic Distortion (at 1 kHz):	MONO 0.3 %	
	50 W + 50 W (8 Ω , 20 Hz – 20 kHz with 0.08 % T.H.D.)	🖵 General	STEREO 0.7 %	
Maximum effective output power:	Front:			
	75 W + 75 W (6 Ω, 1 kHz with 10 % T.H.D.)	Power supply:	AC 230 V, 50/60 Hz	
	Center:	Power consumption:	220 W	
	75 W (6 Ω, 1 kHz with 10 % T.H.D.)		0.2 W (Standby) 3 W (CEC standby)	
	Surround:		S W (CEC standby)	
	75 W + 75 W (6 Ω, 1 kHz with 10 % T.H.D.) Surround back:	For purposes of improvement specific	ations and design are subject to change	without notice
	5urround back: 75 W + 75 W (6 Ω, 1 kHz with 10 % T.H.D.)			
Output connectors:	$75 \text{ VV} + 75 \text{ VV} (6 \Omega), 1 \text{ Km2 With 10 % 1.m.D.}$ $6 - 8 \Omega$			
Analog	0-012			
Input sensitivity/Input impedance:	130 mV/47 kΩ			
Frequency response:	10 Hz – 100 kHz – +1, –3 dB (DIRECT mode)			
S/N:	98 dB (IHF–A weighted, DIRECT mode)			
0,14.				
Video section				
 Standard video connectors 				
Input/output level and impedance:	1 Vp-p, 75 Ω			
Frequency response:	5 Hz – 10 MHz — 0, –3 dB			
Color component video connector				
Input/output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω			
	Pв / Cв signal — 0.7 Vp-p, 75 Ω			
	Pr / Cr signal — 0.7 Vp-p, 75 Ω			
Frequency response:	5 Hz – 60 MHz — 0, –3 dB			

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Index

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GUI

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I	Image: Second
J	2.1-channel······

2.1-channel57
3D7
5.1-channel
6.1-channel
7.1-channel51, 53

🐨 A

A2DP
Accessories
Add New Feature
Adjust Channel
Adjusting the master volume 23
Adobe RGB color / Adobe YCC601 color 125
AirPlay
AM loop antenna
Amp Assign
App Store
App Store
Audio Adjust 80
Audio Delay ······84
Audio Setup91
Audyssey [®] Auto Setup
Audyssey Dynamic EQ®
Audyssey Dynamic Volume [®]
Audyssey MultEQ [®]
Audyssey Settings
Auto Lip Sync
1,
Auto Preset ······ 100
Auto Setup 15, 59

🕼 B

Bass ·····		82
Bass Setting		88
Bi-amp		58
Bluetooth	13,	125

🕼 C

Cable
Audio cable
Coaxial digital cable10
Component video cable
Ethernet cable14
HDMI cable ······8
Optical cable 12
Video cable
Channel Level64, 89
Characters
C.Image······81
Condensation3

Connection

Connection
Antenna ······12
Blu-ray Disc player
Cable TV10
CD player ······12
DVD player
Game console8
HDMI
Home network (LAN)······14
iPod (USB)11
Remote control connectors61
Satellite tuner
Set-top box
Speaker
TV8, 9
USB memory device
Wireless receiver (RX101)13
Content Type7
Crossover Freq
Curve Copy
C.Width

🕼 D

9
D.Comp 81 Decode Mode 103 Deep Color 7, 125 Dimension 81 Direct mode 25 Display 97, 115 Distance 88 DLNA 125 Dolby Dolby Digital 125
Dolby Digital EX
Dolby Digital Plus
Dolby Pro Logic II125
Dolby Pro Logic IIx125
Dolby Pro Logic IIz 51, 125
Dolby TrueHD 125
Downmix125
DRC81
DTS
DTS 96/24 125
DTS Digital Surround125
DTS-ES Discrete 6.1 125
DTS-ES Matrix 6.1 126
DTS Express126
DTS-HD
DTS-HD High Resolution Audio
DTS-HD Master Audio
DTS NEO:6™ Surround ······ 126

Dual backup memory function71	
Dynamic EQ [®]	
Dynamic range 126	
Dynamic Volume [®]	

🕼 E

EQ Customize	
Error messages (Auto Setup)	

🐨 F

Fader function
F.Height88
Firmware Update
FLAC
Flickr
FM/AM
FM indoor antenna12
Front A/B (connection)
Front height speaker
Front Panel 114

GUI ------ 96

🕼 G

🕼 H

HDCP	6
HDMI7, 126	6
HDMI 1.4a	7
HDMI Audio Out90)
HDMI Control)
HDMI Setup90)
Headphones 114	1
Height Gain ·····81	1
HT-EQ	1

I¶ ∎

Information	
Audio Signal	
HDMI Informat	ion85
Preset Channe	I 85
Status	
Input Assign	
Input Mode	
Input signal	
Inputting charact	ers 78
Interval	
iPod PLAY	
iTunes	

/1 83

©7 M

🖅 N

Napster	
Network Setup	
Last.fm Account95	
Last.fm Display	
Napster Account	
Network Connect92	
Network Info95	
Other94	

☞0

28
96
98
97
97
96
97
96
96
97

🕼 P

Pairing 126 Panel lock function 71 Panorama 81 Parameter Check 21 Party mode 66





134

Basic version

GUI

Playback

Basic version

	Blu-ray Disc player	
	CD player	
	Direct	
	DVD player	
	Flickr	
	FM/AM······	
	Internet radio	
	iPod (USB)	
	Last.fm	
	Media server	
	MP3	
	MPEG-4 AAC	
	Napster	
	Network audio	
	PTY	
	Pure direct	
	RDS	
	RT	
	Stereo	
	TP	
	USB memory device	
	WMA	
_		
	Playback Mode (NET/USB) 10	
	P.Off Control	
	Power On Level	
	Preset codes11	
	Preset Name	
	Preset Skip11	
	Presetting radio stations	
	Progressive	
	Protection circuit ······12	
F	РТҮ	31

🖅 R

Random
Rch Level
RDS 30
Rear panel
Reference Offset
Remote control settings 105
Remote control unit 106, 117
Inserting the batteries 118
Operating AV devices
Operating devices
Operating learn function111
Registering Preset Codes 107
Remote mode25
Rename
Repeat
Resetting the microprocessor 132
RT32

🖅 S

Sampling frequency
S.Dack
Selecting the input source
Setup Lock
Sleep timer
Slide Show 104
Source Delete
Source Level 103
Speaker
Connect 53
Install51
Set up15, 21, 59
Speaker Config87
Speaker impedance126
Speaker Setup
Standby Source 90
Still Picture 104
Subwoofer setting16
Surround back speaker 52, 54
Surround mode
Surr.Parameter
Switching the front speakers23
sYCC601 color126
System Setup86

🐨 T

Tone82
Tone Control82
TP31
Trademark ······119
Treble 82
Troubleshooting
Turning off the sound temporarily 23

r V

Video
Video conversion 5
Video Mode ······ 102
Video Select ······ 102
Volume Control
Volume Display96
Volume Limit ······ 95, 96
vTuner

🔊 W

WAV	127
Web control	69
Windows Media DRM	127
Windows Media Player Ver.11 or later	127
WMA	127

x.v.Color ·····

x.v.Color7, 1	127
C 2	
ZONE273, 115, 1	
ZONE2 Setup ·····	· 95
Zone Management	
Zone Rename	· 97



?



Š

Aa

GUI

List of preset codes

J.	Device select : BD		
	B	u-ray Disc I	Player
L	D	Denon	5034, 5035, 5036
	Η	Hitachi	5031, 5032, 5033
۰		Integra	5013
	J	JWC	5014, 5015, 5017, 5018, 5019, 5020
L	L	LG	5010, 5011
L	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
	T	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	
Н	Harman Kardon	2061	
	Hitachi	2008, 2012, 2031	
J	JVC	2006, 2010, 2040, 2041, 2042, 2043	
Κ	Kenwood	2053, 2054	
	Koss	2058	
Μ	Magnavox	2007, 2011, 2023, 2025	
	marantz	2025, 2065	
	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, 2027
	Sanyo	2050, 2052
	Sharp	2044, 2045
	Sherwood	2051
	Sony	2001, 2013, 2059
Т	Toshiba	2004, 2008, 2026, 2028
	Yamaha	2046, 2060
Ζ	Zenith	2010
n		
U	evice sel	BCL SAI
Sa	atellite Rec	eiver
Α	Alphastar	4027
	Amstrad	4047, 4050
	Atsky	4048
В	,	4021, 4045
C	Chaparral	4039
D	DIRECTV	4001, 4016
	DISH Network	4030
	Drake	4026
Ε	Echostar	4007, 4017, 4018, 4019, 4020
	Eurosky	4047, 4056
	Express Vu	4017
F	Foxtel	4051
	Fujitsu	4025
G	GE	4002, 4008, 4009
	General Instruments	4036, 4037
	Gradiente	4044, 4057
Н	Hitachi	4001, 4015
	Hughes	4001, 4016 4049, 4050, 4051

4025

4017

4001

4048

4004, 4010

4036, 4037

4040

4036

4041

4048

4031, 4035, 4044, 4057

4002, 4008, 4009, 4011

4002, 4008, 4009, 4029

4022, 4027, 4050

4044, 4045, 4057

J Janeil

0

JVC

Mitsubishi

Optima P Panasonic

Philips

Proscan

R Radio Shack

Realistic

Rural Cable

Schneider

RCA

S Samsung

SKY Skyplus

		T 1.1	
		Toshiba	4001, 4034
	U	Uniden	4005, 4006, 4013
		Universum	4056
	V	Video Pall	4025
	Z	Zenith	4023, 4025, 4033
	D	evice sel	ect : TV
		elevision	
_	Α	Acer	1141
		Admiral	1002, 1009, 1089
		Aiko	1059
		Aiwa	1117, 1118
020		Akai	1001
		Amtron	1023
		Anam	1113
		Anam National	1023, 1069, 1092
		AOC	1003, 1024, 1049, 1127
		Audiovox	1023
	В	Bell & Howell	1009, 1025
		Benq	1104, 1142
		Broksonic	1003, 1097, 1098, 1113
	C	Celebrity	1001
		Citizen	1003, 1013, 1023, 1026, 1059, 1063
		Colortyme	1003, 1043
_		Contec	1113
		Contec/Cony	1023, 1045, 1047
_		Craig	1020, 1022, 1023, 1113
		Crown	1023, 1067
		Curtis Mathes	1003, 1013, 1025, 1026, 10 1103, 1110
_	D	Daewoo	1003, 1013, 1024, 1035, 10 1059, 1084, 1101
		Daytron	1003, 1013, 1016
_		Dimensia	1103, 1110
	_	Dumont	1003, 1010, 1153
	E	Electroband	1001
		Electrohome	1001, 1003, 1069, 1133
		Emerson	1003, 1013, 1015, 1020, 10 1022, 1023, 1025, 1038, 10 1045, 1048, 1055, 1061, 10 1096, 1099, 1101, 1113

136

4041, 4047, 4056

4003, 4012, 4014

4032

4024

4038

4028

4049

4056

Skysat

Sony

STS

Teac

Star Choice

SuperDish

Thomson

Star Trak

		_	4000
	F 1	Envision	1003
	F	Fisher	1025, 1051, 1091, 1160
		Fujitsu Funai	1038, 1124, 1125, 1155
	C		1023, 1038, 1113 1150
	G	Gateway	
		GE	1003, 1018, 1022, 1046, 1054, 1069, 1085, 1103, 1110, 1113, 1133, 1136, 1153
		Goldstar	1003, 1013, 1024, 1030, 1045, 1080, 1100 1112, 1154
	H	Hallmark	1003
		Hisense	1116
1		Hitachi	1003, 1012, 1031, 1032, 1037, 1041, 1045, 1047, 1065, 1068, 1082, 1088, 1094, 1139, 1140, 1145, 1159
	- 1	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
	K	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
		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
	N	NEC	1003, 1012, 1024, 1043, 1069
		NET-TV	1137, 1150
	0	Orion	1020, 1096
	Ρ	Panasonic	1017, 1067, 1069, 1095, 1111
062,		Philips	1003, 1011, 1045, 1052, 1054, 1056, 1057, 1058, 1063, 1067, 1069, 1106
036,		Pioneer	1003, 1018, 1037, 1070, 1071, 1094, 1145, 1147, 1149
		Plasmsync	1135
		Portland	1003, 1013, 1024, 1059
		Price Club	1026
		Prism	1018
021		Proscan	1004, 1005, 1006, 1007, 1008, 1085, 1103, 1110
021, 044,	_	Proton	1003, 1045
094,	0	Quasar	1010, 1069, 1073, 1111, 1153

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



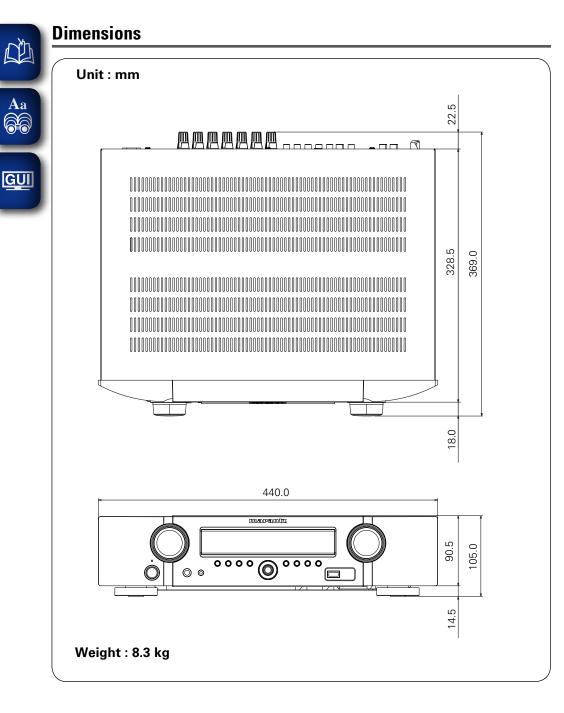


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Basic version



Basic version Adva

Advanced version

Information



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