DENON

DRA-N5
NETWORK RECEIVER

Owner's Manual

☐ SAFETY PRECAUTIONS



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

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



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



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

WARNING:

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



surface

mark

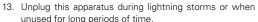
CAUTION: HOT SURFACE. DO NOTTOUCH.

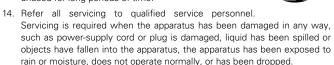
The top surface over the internal heat sink may become hot when operating this product continuously.

Do not touch hot areas, especially around the "Hot surface mark" and the top panel.

IMPORTANT SAFETY INSTRUCTIONS

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





 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.

FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION

Product Name: Network Receiver

Model Number: DRA-N5

This product contains FCC ID: ZQO-CX8703B

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

Denon Electronics (USA), LLC (a D&M Holdings Company) 100 Corporate Drive Mahwah, NJ 07430-2041 Tel. (201) 762-6665

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements.

Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. CAUTION

- To comply with FCC RF exposure compliance requirement, separation distance of at least 20 cm must be maintained between the antenna of this product and all persons.
- This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

4. NOTE

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

IC Information (For Canadian customers)

1. PRODUCT

This product contains IC: 2581A-CX8703B

This product complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003.

2. CAUTION

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

For Canadian customers:

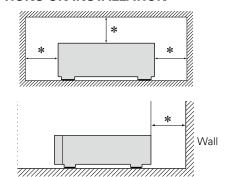
This Class B digital apparatus complies with Canadian ICES-003.

□ NOTES ON USE

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.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.

□ CAUTIONS ON INSTALLATION



- * For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.
 - More than 12 in. (0.3 m) is recommended.
 - Do not place any other equipment on this unit.

Getting started

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

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Accessories

Check that the following parts are supplied with the product.

① Quick setup guide	
② CD-ROM (Owner's manual)	1
3 Safety Instructions	
Warranty (for North America mo	**
(5) Service network list	
6 Power cord	
7 Remote control (RC-1175)	
R03/AAA batteries	
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•	•
A PA	
Cartal	

Main features

High quality & high power in a compact body

Supports internet radio and music streaming Supports AirPlay® (page 35)

DLNA ver. 1.5 support for audio networks

Equipped with a dock connector for connecting an iPod[®] or iPhone[®] directly to this unit

Wi-Fi network capability with built-in diversity antenna, and is certified under WMM (Wi-Fi Multi Media) for efficient wireless connectivity

Easy wireless connection is possible by pressing the WPS button

iPod auto detect and charge even after CEOL piccolo switches to standby mode

"Denon Remote App" compatibility for performing basic unit operations with an iPad $^{\circledR}$, iPhone or Android smartphone

3 Line OELD (Organic Electroluminescence Display)

Auto Standby mode for save the energy

Cautions on handling

Before turning the power switch on

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

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

About condensation

If there is a major difference in temperature between the inside of the unit and its surroundings, condensation may form on parts inside the unit, causing it to fail 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 the 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 cables connected 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.

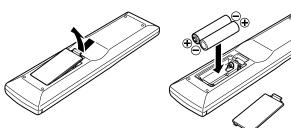
Remote operation

About the remote control

☐ Inserting the batteries

① Remove the remote control's rear cover.

② Set two R03/AAA batteries in the battery compartment in the indicated direction.



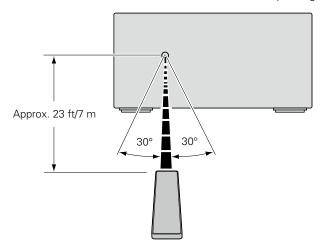
3 Put the rear cover back on.

NOTE

- Insert the specified batteries in the remote control.
- Replace the batteries with new ones if the set does not operate even when the remote control is operated close to the unit. (The supplied batteries are only for verifying operation. Replace them with new batteries at an early date.)
- When inserting the batteries, be sure to do so in the proper direction, following the ⊕ and ⊖ 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 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 may function improperly if rechargeable batteries are used.

□ Operating range of the remote control

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



NOTE

- The set may function improperly or the remote control 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 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 operation is not affected by these signals.

Denon Remote App

Denon Remote App is a unique application developed for the iPhone, iPod touch and Android smartphone. This application enables you to control DENON network devices that are connected to your home network. Install the App onto your iPhone, iPod touch or Android smartphone to control this device.





- Bidirectional communication is performed.
- The Denon Remote App can be downloaded for free from the iTunes Store.



Preparations

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

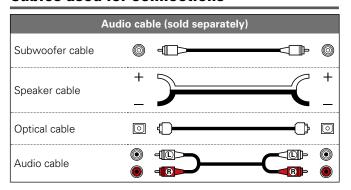
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Connections

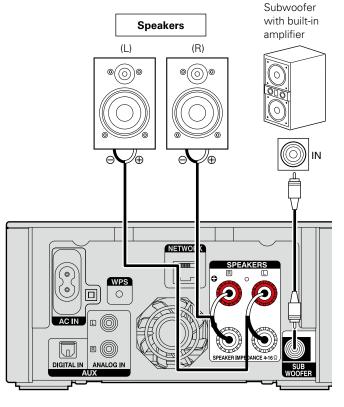
NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- 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 humming or noise.

Cables used for connections



Connecting the speakers



Connecting the speaker cables

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

Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



2 Turn the speaker terminal counterclockwise to loosen it.



Insert the speaker cable's core wire to the hilt into the speaker terminal.



Turn the speaker terminal clockwise to tighten it.

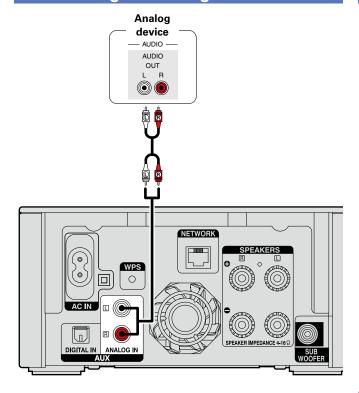


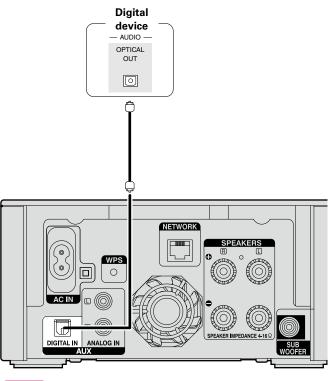
NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off the subwoofer.
- Use speakers with an impedance of 4 to 16 Ω . The protection circuit may be activated if speakers with an impedance other than specified are used.
- Connect the speaker cables so they do not stick out of the speaker terminals. The protection circuit may be activated if the wires touch the rear panel or if the + and sides touch each other (page 49 "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Connecting an analog device

Connecting a digital device





NOTE

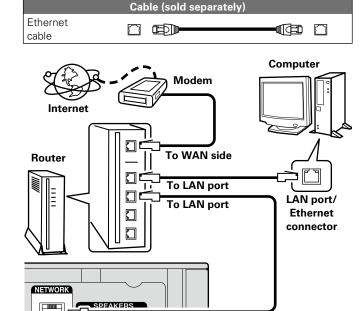
Other digital audio signals than 2 channel linear PCM cannot be input through DIGITAL IN connector of this unit.

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 and online services.
- You can update by downloading the latest firmware from the DENON website.
- For more information, see "Update" (page 12).
- See "Setting the network [Network]" (** page 15) for more information on network setting.

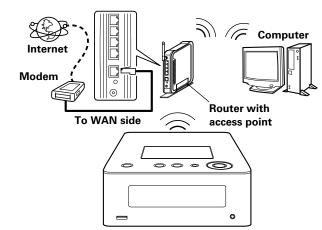
Wired LAN

Cables used for connections



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

Wireless LAN



* This unit comes with a built-in Wi-Fi antenna.

NOTE

If there is any obstacle, communications may be disrupted. If this happens, place the relevant devices in a place where there is no obstacle.

Required system

□ Broadband internet connection

□ Modem

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

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.
- When using with a wireless LAN, prepare a broadband router with built-in access point.
- When using a WPS (Wi-Fi Protected Setup) compatible router, easy wireless connection is possible by pressing this unit's WPS button (Farage 17).

☐ 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.



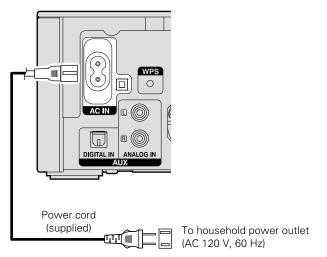
- If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network connecting (when "DHCP" setting is "Off")" (Fig page 15).
- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- 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 connecting (when "DHCP" setting is "Off")" (Papage 15).
- 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.
- DENON 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 Ethernet connector directly to the LAN port/ Ethernet connector on your computer.
- To listen to audio streaming, use a router that supports audio streaming.

Connecting the power cord

When all of the connections are completed, insert the power plug into the power outlet.



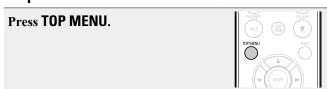
Setup

Menu map

Setting items		Detailed items		Description	Page
Quick Setup					
[Setup] ♦ Quick Setup ⊚ :enter ∢ :back	= Quick Setup	- Ouick Setun		Performs the network settings using a Wizard style window. For details on the operations, see the separate "Quick setup guide".	-
General	Alarm			Sets the timer playback.	10
	Clock			Sets the current time	11
[Setup]	Speaker Optim	ization		Sets the optimum playback properties of the speakers SC-N5, sold separately.	12
♦General	Language			Sets the language.	12
:enter <:back	Auto-Standby			Sets the unit power to standby when the unit is not in use.	<u>12</u>
		Update		Updates the firmware.	<u>12</u>
	Firmware	Notification		Set the Update and Upgrade notification on/off.	<u>13</u>
		Add New Feat	ıre	Displays new functions that can be downloaded, and upgrades functions.	<u>14</u>
letwork	Network Inform	mation		Displays various information about the network.	_
[0-+]	Network Contr	ol		Performs the ON/OFF settings for the network function when in standby mode.	<u>19</u>
[Setup]	Friendly Name			Edits a name displayed on the Internet.	<u>19</u>
♦Network	■			Performs the settings for a wired or wireless LAN.	<u>15</u>
:enter <:back				Performs the settings for a wired LAN.	<u>15</u>
		When making	DHCP (On) or DHCP (Off)	Performs the DHCP setting.	<u>15</u>
		wired	IP Address*	Performs the IP address setting.	<u>15</u>
		connection	Subnet Mask*	Performs the subnet mask setting.	<u>15</u>
		Connection	Gateway*	Performs the gateway setting.	15
	Cattinua		Primary DNS*	Performs the primary DNS setting.	15
	Settings	Wired Setup	Secondary DNS*	Performs the secondary DNS setting.	15
			Proxv	Performs the proxy setting.	16
			Test Connection	Performs the wired LAN connection.	15
		\A/I		Performs the wireless LAN connection setting.	17
		When	Auto-Scan	Selects and sets the wireless connections from the access point list.	17
		Making Wi-Fi	WPS (Wi-Fi Protected Setup)	Sets the wireless connection using WPS (Wi-Fi Protected Setup).	17
COI	connection	Manual	Sets the wireless connection manually.	18	

^{*} Displayed when the "DHCP" setting is "Off" (Page 15).

☐ To back to the top of the menu, during menu operation







Setting the first setup [Quick Setup]

- For details on "Quick Setup" operations, see the separate "Quick setup guide".
- If you cancelled "Quick Setup" menu or changed the network environment, perform "Setup" - "Quick Setup".



Setting the general [General]

Alarm

This device can playback using the alarm playback (everyday alarm,

- This unit's alarm does not support exit time settings for alarm playback.
- ☐ Alarm operation when the time settings for alarms overlap

When the once alarm and everyday alarm are both set (sleep timer is not set)

• Automatically starts playback at the earlier alarm start time set for either of the alarms.



If the current time is not set, enter alarm setting mode to get time setting mode.

☐ Setting the everyday alarm and once alarm

- Everyday alarm ("Everyday")
- Playback starts at the set times each day.
- Once alarm ("Once")

Playback starts once only at the set times.

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use $\triangle \nabla$ and ENTER to select "General" – "Alarm" then press "General" - "Alarm", then press **ENTER** or \triangleright .



- **2** Use $\triangle \nabla$ to select the alarm mode, and use $\triangleleft \triangleright$ to select "On" or "Off" then press ENTER.
- **4** Use $\triangle \nabla$ to select "Set Time", then press **ENTER** or
- **■** Use $\triangle \nabla$ to select "hours" "minutes" for the alarm start time, then press ENTER or \triangleright .
- **6** Use $\triangle \nabla$ to select "Source", then press ENTER or \triangleright .
- 7 Use $\triangle \nabla$ to select the input source, then press ENTER



- **8** Use $\Delta \nabla$ to select "Volume", then press ENTER or D.
- Use $\triangle \nabla$ to select the volume "0 60", then press ENTER or >
- Press **POWER** (b) to set the power to standby. Alarm standby mode is set, and the power indicator lights orange.

NOTE

- If the unit or remote control is not operated for 90 minutes or more when the alarm is set to on, the standby mode is activated.
- When using alarm playback on an iPod touch or iPhone, set the iPod touch or iPhone to "Sleep" mode. If the power is switched off using the power off operation, alarm playback cannot be used. For details on the "Sleep" mode of the iPod touch or iPhone, see the instruction manuals of the products or related web pages.

☐ Setting the alarm to on or off

Perform the operations at "Alarm" (page 10).

• When set to "OFF", time operation is disabled, but the alarm settings remain unchanged.

☐ To check the alarm settings

Perform the operations at "Alarm" (page 10).

☐ To change the alarm settings

Perform the operations at "Alarm" (page 10).

☐ To change the setting while setting the alarm

The setting returns to the previous step. Display the setting you want to change, then make the desired setting.

Clock

You can automatically adjust the clock of this unit using the Internet.



To use this function, the unit must be connected to the Internet.

□ Setting the Time Zone

When changing the time zone, use the following procedure to select your local standard time (time zone).

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display. (*** page 9 "Menu map")

2 Use △∇ and ENTER to select "General" – "Clock" – "Auto-Adjust" – "Time Zone", then press ENTER or ▷.



"Time Zone" menu appears.

3 Use $\triangle \nabla$ to select your time zone, then press **ENTER** or \triangleright .

4 Use $\triangle \nabla$ and ENTER to select "Auto-Adjust" – "Adjust Now", then press ENTER or \triangleright .

The setting is entered.

☐ Setting the DST (Daylight Saving Time)

Use the following procedure to set DST if the DST system is used in your country.

1 Press **SETUP**.

Turns on the Menu settings mode and the Menu appears on the display.

2 Use △∇ and ENTER to select "General" – "Clock" – "Auto-Adjust" – "DST", then press ENTER or ▷.

"Select DST" menu appears.



3 Use $\triangle \nabla$ to select "Off (0H)" or "On (+1H)", then press **ENTER** or \triangleright .

4 Use $\triangle \nabla$ and ENTER to select "Auto-Adjust" – "Adjust Now", then press ENTER or \triangleright .

The setting is entered.

□ Auto Adjust

Use the following procedure to automatically adjust the clock.

⁴ Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (**P** page 9 "Menu map").

2 Use △∇ and ENTER to select "General" – "Clock" – "Auto-Adjust" – "Adjust Now", then press ENTER or ▷.

The operation to receive the current time starts.

- The current time is displayed for several seconds when it is received successfully.
- If the current time is not received successfully, "Connection Failed" appears.

☐ Setting the current time (Manual Adjust) (24-Hour Display)

1 Press **SETUP**.

Turns on the Menu settings mode and the Menu appears on the display (Frage 9 "Menu map").

2 Use $\triangle \nabla$ and ENTER to select "General" – "Clock" – "Manual Adjust", then press ENTER or \triangleright .

3 Use $\triangle \nabla$ to set the "hours".

 \triangle Press ENTER or \triangleright .

5 Use $\triangle \nabla$ to set the "minutes".

6 Press ENTER or . The current time is set



Checking the current time when the power is on

Press CLOCK

Press once more and the display returns to its original condition.

Checking the current time when the power is set to standby

Press CLOCK.

The current time is displayed for 30 seconds.

NOTE

- The time cannot be set when in the standby mode. Turn on the power first.
- The time setting is canceled if the power cord is disconnected. Set the time again.

Speaker Optimization

An optimizing filter suited for the properties of the speakers (SC-N5) can be used.

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (Fpage 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "General" – "Speaker Optimization", then press **ENTER** or \triangleright .

"Speaker Optimization" menu appears.

Use $\triangle \nabla$ to select "On", then press ENTER or \triangleright .

The response is optimized for the speakers (SC-N5, sold separately).

Off The response is flat.

Language

Sets the language for display the menu.

• The factory language setting is "English".

Press **SETUP**.

Turns on the Menu settings mode and the Menu appears on the display (Ppage 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "General" - "Language", then press ENTER or \triangleright .

English / Français / Español



Auto-Standby

When this unit is in the stop state and there is no input signal and operation for 30 minutes, it automatically enters the standby mode. For the input source "AUX:Analog In" only, when no operation is performed for eight hours, this unit automatically enters the standby

• The default setting is "Off".

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (Fpage 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "General" - "Auto-Standby", then press **ENTER** or \triangleright .

"Select Auto-Standby" menu appears.

press ENTER or \triangleright .

Use $\triangle \nabla$ to select "On", then The setting is entered.



NOTE

In the following situations, the Auto-standby function does not operate.

• When the source is "iPod" (Remote mode) or "AirPlay".

Firmware

□ Update

- In order to update the firmware, the environment and settings required for connecting to broadband internet are needed
- Perform the firmware update operation after at least 2 minutes has elapsed since turning this unit's power ON.

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (Fpage 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "General" - "Firmware" -"Update", then press ENTER or D.



Check For Update Check for firmware updates. You can also check approximately how long it will take to complete an update.

Update Start Execute the update process.

• 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	Description		
Updating fail	Updating failed.		
Login failed	Failure to login to server.		
Server is busy	Server is busy. Wait a while then try again.		
Connection fail	Failure in connecting to server.		
Download fail	Downloading of the firmware has failed.		

☐ Update on web screen

Firmware can be updated using the "Web control function" (Figure 38).

"Web control function" (Fpage 38) settings must be completed in advance on a PC belonging to the same network. For information on obtaining update files, please contact our customer service center.

Click 4 from step 5 for the "Web control function" (page 38).

The PC will display the following screen.

Wait for approximately 1 minute.

You can also gain access by entering the IP address shown by the unit into a web browser.

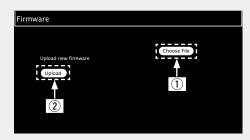
[The web display]



[The unit's screen display]

IpAddress 192.168.xxx.xxx

2 When the following screen is displayed by the PC, click the "Choose File" (1) button, select the update file, and click the "Upload" (2) button.



3 When the following screen is displayed, click the "OK" (③) button.

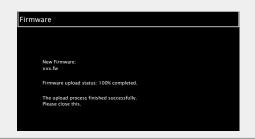
Updating will begin.



NOTE

Do not operate the unit while updating is in progress.

When the following screen is displayed, updating is complete.





Button names may vary depending on the OS language used on your computer.

■ Notification

Press SETUP.

Update

Displays a notification message on this unit's menu screen when the latest firmware is released with "Update".

Connect to broadband Internet (*** page 7*) when using this function.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use △▽ and ENTER to select "General" – "Firmware" – "Notification" – "Update", then press ENTER or ▷.
"Update Notification" menu appears.

3 Use $\triangle \nabla$ to select "On", then press ENTER or \triangleright .





- When you press ENTER during display of the notification message, the "Check for Update" is displayed. (Refer to page 12 for more information on "Update".)
- Press \triangleleft to erase the notification message.

Upgrade

Display a notification message on this unit's menu screen when downloadable firmware is released with "Add New Feature".

Connect to broadband Internet (page 7) when using this function.

1 Press **SETUP**.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use △▽ and ENTER to select "General" – "Firmware" – "Notification" – "Upgrade", then press ENTER or ▷.

"Upgrade Notification" menu appears.

3 Use $\triangle \nabla$ to select "On", then press ENTER or \triangleright .

On Display upgrade message.

Off Do not display upgrade message.



- When you press ENTER during display of the notification message, the "Add New Feature" is displayed. (Refer to page 14 for more information on "Add New Feature".)
- ullet Press igsim to erase the notification message.

□ Add New Feature

- In order to add new functions, the environment and settings required for connecting to broadband internet are needed (F) page 7).
- Perform the add new feature operation after at least 2 minutes has elapsed since turning this unit's power on.

1 Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use △▽ to select "General"

– "Firmware" – "Add New Feature", then press ENTER or ▷.



Upgrade StatusDisplay a list of the additional functions provided by the upgrade.

Upgrade Start Execute the upgrade process.

• If the upgrade is not successful, an error message identical to those in "Update" (** page 12) will appear on the display. Check the settings and network environment, then update again.

Upgrade ID The ID number shown on this screen is needed when carrying out the procedure.



See the DENON website for details about updates.

When the procedure is complete, "Registered" is displayed and updates can be carried out. If the procedure has not been carried out, "Not Registered" is displayed.

[Notes concerning use of "Update" and "Add New Feature"]

- Do not turn off the power until updating or upgrading is completed.
- Even with a broadband connection to the Internet, approximately 20 minutes 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, 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.



- Information regarding the "Update" function and "Add New Feature" will be announced on the DENON web site each time related plans are defined.
- When usable new firmware is released with "Update" or "Add New Feature", a notification message is displayed on the menu screen. When you do not want to be notified, set "Update" (*** page 13) and "Upgrade" (*** page 14) to "Off".



Setting the network [Network]

Connecting wired LAN

Use this procedure to configure the wired LAN settings.

■ Network connecting (when "DHCP" settings are "On")

When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.

- Connect the ETHERNET cable (Epage 7 "Connecting to a home network (LAN)" - "Wired LAN").
- Press POWER (b) to turn on power to the main unit.
- Press SETUP. Turns on the Menu settings mode and the Menu appears on the display (Ppage 9 "Menu map").
- ✓ Use $\triangle \nabla$ and ENTER to select "Network" - "Settings" "DHCP (On)", then press ENTER or \triangleright .
 - "Select DHCP" menu appears.



- Use $\triangle \nabla$ to select "On", then press **ENTER** or \triangleright . "DHCP (On)" menu appears.
- Use $\Delta \nabla$ to select "Test Connection", then press **ENTER** or \triangleright .

"Wait for the network to connect..." is displayed, and the unit starts connecting to the LAN.

- When the connection is made successfully, "Connected!" appears.
- If the connection cannot be established, "Connection Failed" is displayed. Perform steps 1 - 6 again.



You may need to set the network connection manually, depending on the provider you use. To set the connection manually, use the setting procedure of "Network connecting (when "DHCP" settings are "Off")".

■ Network connecting (when "DHCP" setting is "Off")

This section explains the settings when connecting this unit to a network that does not have a DHCP function.



To configure the settings manually, check the setting details with your network administrator.

Perform steps 1 - 4 of the "Network connecting (when "DHCP" settings are "On")" procedure and select "Off" in step 5.

"DHCP (Off)" menu appears.

Use $\triangle \nabla$ to select "IP Address", then press ENTER or \triangleright .

"Enter IP Address" menu appears.

Use $\triangle \nabla \triangleright$ or $\mathbf{0} - \mathbf{9}$ to input the IP address and press ENTER.



- Use $\triangle \nabla \triangleright$ or $\mathbf{0} \mathbf{9}$ to input the address for "Subnet Mask", "Gateway", "Primary DNS", and "Secondary DNS".
- Use $\Delta \nabla$ to select "Test Connection", then press **ENTER** or \triangleright .

"Wait for the network to connect..." is displayed, and the unit starts connecting to the LAN.

- When the connection is made successfully, "Connected!" appears.
- If the connection cannot be established, "Connection Failed" is displayed. Perform steps 1 – 4 again.

□ Proxy settings

Configure these settings to connect to the internet via a proxy server.

1 / 2 ABC 3 DEF

4 GHI 5 JKL 6 MNO

7 PORS) 8 TUV 9WXYZ

(+10_{a/A}) (0 ...

1 Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use △∇ and ENTER to select "Network" – "Settings" – "Proxy", then press ENTER or ▷.

"Setup Proxy" menu appears.

3 If "Proxy(On)" appears, go to step 5.

If "Proxy(Off)" appears, press ENTER or ▷.

"Select Proxy" menu appears.



5 Use $\triangle \nabla$ to select "Proxy (Address)" or "Proxy (Name)", then press **ENTER** or \triangleright .

"Select Type" menu appears.



"Setup Proxy" menu appears.

7 Use $\triangle \nabla$ to select "Address" or "Name", then press ENTER or \triangleright .

"Enter Proxy Address" or "Enter Proxy Name" menu appears.

8 Use $\triangle \nabla \triangleright$ or 0-9, +10 to input the address or name, then press **ENTER**.

"Setup Proxy" menu appears.

- **9** Use $\triangle \nabla$ to select "Port", then press ENTER or \triangleright . "Enter Proxy Port" menu appears.
- 10 Use $\triangle \nabla \triangleright$ or 0 9 to input the port, then press ENTER.

The Proxy settings are completed.

Connecting wireless LAN

Use this procedure to configure the wireless LAN settings.

□ Auto-Scan (Wireless LAN)

If a LAN cable is connected, remove it.

1 Press POWER (b) to turn on power to the main unit.

Press SETUP.
Turns on the menu settings mode

and the menu appears on the display (\bigcirc page 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select

Scan", then press ENTER or ▷. The access point you have set is displayed.

"Network" - "Settings" - "Auto-

4 Use $\triangle \nabla$ to select the access point, and then press **ENTER** or \triangleright .

• If the access point is not detected automatically, configure it manually (page 18 "Manual Settings").



5 If there is an encryption setting for the access point you selected in step 4, enter same encryption key as used for the access point. (If there is no encryption setting, proceed to step 6.)

Use $\triangle \nabla \triangleleft \triangleright$ or $\mathbf{0} - \mathbf{9}$, $+\mathbf{10}$ to input the "Password" (encryption key) and press **ENTER** or \triangleright . Enter the same encryption key as used for the access point.

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

[Lower case characters]
abcdefghijklmnopqrstuvwxyz
[Upper case characters]

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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

 When no security settings have been used in the Internet connection settings, this step is not necessary.

6 Use ∇ to select "Test Connection", then press **ENTER** or \triangleright .

"Wait for the network to connect..." is displayed, and the unit starts connecting to the network.

 This unit performs automatic network setup due to the DHCP function.

□ WPS Settings (Push-button method)

By just pressing the WPS button on your router and this unit, the wireless LAN connection settings are made.



- Before turning this unit on, make sure that an Ethernet cable is not connected to this unit. If a cable is connected, have this unit enter the power standby mode and disconnect the cable.
- After the unit is turned on, it takes approximately 30 seconds for the WPS button on this unit to be available.

1 Press the WPS button of the router.

Press WPS on the rear panel. "Wait for the network to connect..." is displayed, and the unit starts connecting to the LAN.



- When connection is established with access point, "Connected!" is displayed.
- If the connection cannot be established, "Connection Failed" is displayed. Perform steps 1 – 2 again.

NOTE

If the router uses WEP, WPA-TKIP or WPA2-TKIP encryption, connection is not possible using the WPS button. In this case, connect using "Auto-scan" or "Manual".

□ WPS Settings (PIN code method)

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (Ppage 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "Network" - "Settings" - "WPS (Wi-Fi Protected Setup)" - "PIN code", then press **ENTER** or \triangleright . The access point you have set is displayed.

Use $\triangle \nabla$ to select the access point whose PIN code vou want to display, and press ENTER or \triangleright . PIN code number is displayed.



■ Manual Settings

Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (Progression of the page 9 "Menu map").

Use $\triangle \nabla$ and ENTER to select "Network" - "Settings" -"Manual", then press ENTER or

Use $\triangle \nabla$ to select "SSID", then press ENTER or \triangleright .

Use $\triangle \nabla \triangleleft \triangleright$ or 0-9, +10 to input the name of the wireless network (SSID), then press ENTER.

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

(1 ./) (2 ABC) (3 DEF)

4 GHJ 5 JKL 6 MNO

7 PORS 8 TUV 9WXYZ

(+10_{a/A}) (0 ... ·

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

5 Use $\triangle \nabla$ to select "Security", then press ENTER or \triangleright .

Use $\triangle \nabla$ to select following items, then press **ENTER** or D.

- None Select if not encrypted. Can also be used even without encryption, through we recommend encryption for improved security.
- WEP / WPA(TKIP) / WPA(AES) / WPA2(TKIP) / WPA2(AES) Select the encryption method according to the encryption setting of the access point you are using.

Use $\triangle \nabla$ to select "Password", then press **ENTER**.

8 Use $\triangle \nabla \triangleleft \triangleright$ to enter the encryption key, and press **FNTED** ENTER.

Enter the same encryption key as used for the access point.

- When no security settings have been used in the Internet connection settings, this step is not necessary.
- When connecting to a "WEP" encrypted network, set the access point "Default Key" to "Key 1".
- Use ∇ to select "Test Connection" and press ENTER or D.

"Wait for the network to connect..." is displayed, and the unit starts connecting to the network.

• This unit performs automatic network setup due to the DHCP function.

NOTE

This unit is not compatible with WEP (TSN) encryption system.

Other network settings

■ Network Control

Set the network function On/Off during standby.

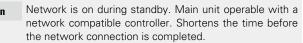
1 Press **SETUP**.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use $\triangle \nabla$ to select "Network" – "Network Control", then press **ENTER** or \triangleright .

"Network Control" menu appears.

3 Use $\triangle \nabla$ to select "On", then press ENTER or \triangleright .



- When "Network Control" is set to "On", the power display lights red.
- More power is consumed when in standby (Power consumption: 3 W).

Suspend network function during standby. It will take slightly longer till the network connection is completed.

- The minimum amount of power is consumed when in standby (Power consumption: 0.3 W).
- This is the default setting.

✓ Press **SETUP**.

The display returns to normal.

☐ Friendly Name

The Friendly Name is the name of this unit displayed on the network (Maximum 63 characters).

→ Press SETUP.

Turns on the Menu settings mode and the Menu appears on the display (page 9 "Menu map").

2 Use △∇ to select "Network"

- "Friendly Name", then press

ENTER or ▷.

"Friendly Name" menu appears.

3-1 [When ▷ is pressed]
Choose from preset names.
Use △▽ to select a name, then press ENTER.



Preset names

Current friendly name / DENON DRA-N5 / AV Room / Bedroom / Dining Room / Family Room / Guest Room / Kids Room / Kitchen / Living Room / Office / CEOL piccolo (Default)

- 3-2 [When ENTER is pressed] Edit a friendly name.
- For character input, see page 40.

☐ Resetting the friendly name to the default setting

In step 3-1, select "CEOL piccolo (Default)" and press ENTER.

Operations

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

- Preparations page 21
- Operations possible during playback page 21
- Network audio playback page 23
- Favorite function **Page 29**
- iPod playback ② page 30
- USB memory device playback page 33
- Listening to AUX **page 34**
- AirPlay function **page 35**
- Remote play function page 37
- Web control function **page 38**
- Other functions page 40

Operations

This section provides information on operations of playback procedures.

Preparations

Turning the power on

Press POWER (b). The power indicator lights white and the power turns on.



- When you turn on the power of this unit for the first time after purchasing it, the "Quick Setup" menu starts up. For details on "Quick Setup" operations, see the separate "Quick setup guide".
- If you cancelled "Quick Setup" menu or changed the network environment, perform "Setup" "Quick Setup".

Turning the power to standby mode

Press POWER **(**). The unit enters standby mode.

Power indicator

Alarm standby: Orange

Standby: Off Network Control – "On": Red iPod charge standby: Red



NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time, unplug the power cord from the power outlet.

□ Completely turning off the power

Unplug the power cord from the wall outlet.

Operations possible during playback

Selecting the input source

☐ Selecting the input source using the main unit

1 Press SOURCE.
The display changes to the input source selection screen.
2 Press △∇ to select the input source.





With the unit, you can play back music files stored on your iPhone/ iPod touch and music from iTunes (*** page 35 "AirPlay function").

□ Selecting the input source using the remote control



- The desired input source can be selected directly.
- The input source is switched as follows each time AUX is pressed.



Pod AUX USB

Adjusting the master volume

Use **VOLUME AV** to adjust the **volume**.

The volume level is displayed.

i ne volume level is displayed

[Variable range]



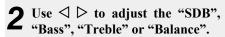




You can also do this by turning **VOLUME** on the main unit.

Adjusting the tone

Press SDB TONE to select the tone parameter to be adjusted. SDB → Bass → Treble S. Direct ← Balance ←



- To make other tone adjustments at this time, press **SDB TONE**.
- If no operation is performed for 5 seconds, the adjustment is retained and the normal display reappears.

SDB	Emphasize the +10 dB bass sound.				
	[Selectable modes]	On	-	Off	
Bass	Adjusts the bass soun [Variable range]	d. –10dB	-	+10dB	
Treble	Adjusts the treble sour	nd. –10dB	-	+10dB	
Balance	Adjusts the left/right v	olume b	ala	nce.	
	[Variable range] Press ◁ when you want to adju		dju		el, D
S.Direct	The tone is not adjuste	ed.			

[Default settings]

• SDB : Off • Bass : 0dB • Treble : 0dB • Balance : Center

Turning off the sound temporarily

Press MUTE ♥×.

The "MUTING" is displayed.





To cancel, press **MUTE ◄** again.

The mute mode is also canceled when **VOLUME** $\Delta \mathbf{V}$ is pressed.

Setting the sleep timer

Use this function to automatically switch the power to the standby mode after a specific amount of time (minutes).

The sleep timer can be set to up to 90 minutes, in steps of 10 minutes.

Press **SLEEP** during playback and select the setting time.

- Press the button to select the setting time.
- After about 3 seconds, the setting is entered and the display returns to as it was before.



☐ Canceling the sleep timer

Either press **SLEEP** to select "Sleep►OFF" or press **POWER (b**.

☐ To check the time remaining until the sleep timer is activated

Press **SLEEP**.

Switching the display's brightness

Press DIMMER.



 The display brightness is adjusted each time **DIMMER** is pressed as shown below.





If you operate the buttons when the display's brightness is set to "Off", the display temporarily lights at "25%" brightness level.

Listening with headphones

Plug the headphones (sold separately) into \bigcap .

• The sound from the speakers is automatically cut off.



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

Network audio playback

Follow this procedure to play Internet radio stations or music files stored on a computer.

- ☐ About the internet radio function (☐ page 48)
- ☐ About Music server (☐ page 48)
- ☐ About Pandora® (☐ page 48)
- ☐ About SiriusXM (@page 48)

Listening to internet radio

- **✓** Prepare for playback.
 - ① Check the network environment, then turn on this unit's power (Frage 21 "Turning the power on").
 - ② If settings are required, make the "Setting the network [Network]" (*** page 15).
- 2 Press INTERNET RADIO to switch the input source to "Internet Radio".
- For details on selecting the input source using the unit buttons, see "Selecting the input source using the main unit" (Fig. page 21).



- **3** Press $\triangle \nabla$ to select the item you want to play, then press ENTER or \triangleright .
- Repeat step 3 until the station list is displayed.

 The station list is displayed.
- Any characters that cannot be displayed are replaced with "." (period) or " " (space).
- **5** Press $\triangle \nabla$ to select the station, then press **ENTER** or \triangleright .

Playback starts once buffering reaches "100%".



- 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.

□ Switching the display

Press **INFO** during Internet radio reception.

The broadcast station information and signal format bit rate are displayed.



☐ Recently played internet radio stations

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

Up to 20 stations stored in "Recently Played".

- 1 On a top menu of the internet radio station, press △∇ to select "Recently Played", then press ENTER or ▷.
- **2** Press $\triangle \nabla$ to select the item you want to play, then press ENTER or \triangleright .



☐ Searching stations by keyword (Alphabetic strings)

- **1** Press $\triangle \nabla$ to select "Search by Keyword", then press **ENTER** or \triangleright .
- **2** Use $\triangle \nabla \triangleright$ or 0 9, +10 to input the characters, then press **ENTER**.
- For character input, see page 40.



☐ Registering internet radio stations as your favorites

You can register your favorite broadcast stations in Favorite List (page 29).

□ Internet radio operation

Operation buttons	Function			
FAVORITE ADD	Registration to the Favorite list			
FAVORITE CALL	Call from the Favorite list			
►/II	Stop			
SETUP	Menu			
$\triangle \nabla \triangleleft \triangleright$	Cursor operation (Up/Down/Left/Right			
ENTER	Enter			
SEARCH	Character search*			

* Press SEARCH, then press ENTER to select the first letter you want to search mode.



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



Applying media sharing settings

Here, we apply the settings to share music files stored on a PC and NAS on the network.

☐ Sharing media stored in PC

If you are using a media server, be sure to apply this setting first.

When using Windows Media Player 12 (Windows 7)

NOTE

Perform this procedure after changing the control panel display to "Category".

- In the PC's "Control Panel", select "Network and Internet" "Choose homegroup and sharing options".
- 2 Select the "Stream my pictures, music, and videos to all devices on my home network" check box and select "Choose media streaming options".
- 3 Select "Allowed" in the drop-down list for "CEOL piccolo".
- **4** Select "Allowed" in the drop-down list for "Media programs on this PC and remote connections...".
- 5 Click "OK" to finish.

When using Windows Media Player 11

1 Start up Windows Media Player 11 on the PC.

9 Select "Media Sharing" in the "Library".

Click the "Share my media" check box, select "CEOL piccolo", and then click "Allow".

As you did in step 3, select the icon of the device (other PCs and mobile devices) you want to use as a media controller, and then click "Allow".

5 Click "OK" to finish.

Sharing media stored in NAS

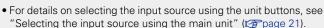
Change settings on the NAS to allow this unit and other devices (PCs and mobile devices) used as media controllers to access the NAS. For details, see the owner's manual that came with the NAS.

Playing files stored on a PC and NAS 🖪

Use this procedure to play music files or playlists.

Prepare for playback.

- ① Check the network environment, then turn on this unit's power (*** page 21 "Turning the power on").
- ② If settings are required, make the "Setting the network [Network]" (Carpage 15).
- ③ Prepare the computer (*** page 24 "Applying media sharing settings", *** page 48 "About Music server").
- Press MUSIC SERVER to switch the input source to "Music Server".



- **3** Press $\triangle \nabla$ to select the server including the file to be played, then press **ENTER** or \triangleright .
- **4** Press $\triangle \nabla$ to select the search item or folder, then press **ENTER** or \triangleright .
- **5** Repeat step 4 until the file is displayed.
- **6** Press $\triangle \nabla$ to select the file, then press ENTER or \triangleright . Playback starts once buffering reaches "100%".



INTERNET ON INE MUSIC SERVER

CH-

- Connections to the required system and specific settings must be made in order to play music files (**T*page 7*).
- 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.
- 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.

NOTE

Particularly when you play back large music files, depending on your wireless LAN environment, the playback sound may be interrupted. In this case, make the wired LAN connection.

☐ Playing repeatedly (Repeat playback)

(**page 33**)

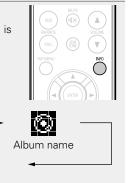
☐ Playing random order (Random playback)

(**page 33**)

□ Switching the display

During playback, Press INFO.

• The display switches each time **INFO** is pressed.



☐ Music server operation

Artist name

Operation buttons	Function	
	Auto search (cue)	
►/II	Playback / Pause	
SETUP	Menu	
△∇⊲⊳	Cursor operation (△▽◁▷) /	
	Auto search (cue, $\triangle \nabla$)	
ENTER	Enter	
SEARCH	Character search*1	
REPEAT	Repeat playback (FF page 33)	
RANDOM	Random playback (Ppage 33) *2	

File type/Bit rate

- *1 Press **SEARCH**, then press **ENTER** to select the first letter you want to search mode.
- *2 When playing files stored on a computer using the random play function, when a track has finished playing, the next track is selected at random from all of the tracks on the computer. For this reason, the same track may be played back to back.





- If the list is not in alphabetical order, you may not be able to perform a character search.
- Depending on the server being used, some functions may be limited.

Listening to Pandora® internet radio P

INTERNET ONLINE MUSIC SERVER

Held PAIN (PH)

Pandora is only available in the U.S.

Prepare for playback.

- ① Check the network environment, then turn on this unit's power (Fpage 21 "Turning the power on").
- ② If settings are required, make the "Setting the network [Network]" (*** page 15).
- 3 Complete step 4 and obtain a Pandora account.
- If you already have a Pandora account, you do not need to obtain a new account. Use your existing Pandora account.

2 Press **ONLINE MUSIC** to switch the input source to "Pandora".

- For details on selecting the input source using the unit buttons, see "Selecting the input source using the main unit" (Page 21).
- If you do not have a Pandora account, press ∇ to select "I am new to Pandora", then press ENTER or ▷.

The URL needed to activate Pandora and the activation code will be displayed.

Browse to the Pandora activation URL from your PC and follow the on-screen instructions for creating a new account.

3 If you have a Pandora account, use $\triangle \nabla$ to select "I have a Pandora account", then press ENTER or \triangleright .

⚠ Input "Email address" and "Password".

• For character input, see page 40.

After inputting the "Email address" and "Password", select "login", then press ENTER or ▷.

If the "Email address" and "Password" match, the top menu for Pandora is displayed.



Press **TOP MENU** to cancel the input.

☐ Creating a new station

You can create up to 100 radio stations.

1 Use $\triangle \nabla$ to select "New Station", then press **ENTER** or \triangleright .

2 Input a track or artist name, then press ENTER or ▷.

• For character input, see page 40.

3 Use $\triangle \nabla$ to select "Search by artist" or "Search by track", then press **ENTER** or \triangleright .

You can search and display a list by track or artist.

4 Use $\triangle \nabla$, select a file (e.g. D&M2) from the list, and press ENTER or \triangleright .

"Radio" is added to the end of a filename, and your new station is created (e.g. D&M2 Radio).

 Your new station will play music with similar qualities to the artist or track you entered.

☐ Listening to an existing station

Use $\triangle \nabla$ and select the radio station ("D&M2 Radio") that you want to listen to, and press ENTER or \triangleright .



Listening to created radio stations at random

Use $\triangle \nabla$ to select "Quick Mix", then press **ENTER** or \triangleright .

Created radio stations are selected at random, and tracks are streamed.



☐ Giving Feedback and Managing Stations

You can personalize your stations by providing feedback.

Press > while a track is playing.

The Pandora menu screen is displayed.



I like this track

- Press when you like the track that is being played.
- It will return to the Play Screen. And (Thumbs up) icon is displayed. (The icon is not displayed on the next track.)

I don't like this track

- Press when you don't like the track that is being played.
- It will return to the Play Screen. And (Thumbs down) icon is displayed. (The icon is not displayed on the next track.)

Create station

 Creates a Station for the Track or Artist being played.

Bookmark this artist

- Bookmarks the artist currently being played.
- You can check on a computer or iPhone etc.
- For details, see the Pandora web page.

Bookmark this track

- Bookmarks the track currently being played.
- You can check on a computer or iPhone etc.
- For details, see the Pandora web page.

I'm tired of this track

station

- Press when you don't like the track that is being played.
 The track will not be played for 1 month.
- Delete this
 - Press when you want to delete the station that is being played.

NOTE

- You can Skip up to 6 Tracks that are being played back within 1 hour.
- You can create up to 100 Stations (radio stations).

☐ Sign out

Disassociate this unit from your Pandora account.

- While the Pandora top menu is displayed, press <\dagged.
- When the popup menu appears, use $\triangle \nabla$ to select "Yes", then press ENTER.



☐ Switching the display

During playback, press INFO.The file type/bit rate, artist name and album name are displayed.



□ Pandora operation

Operation buttons	Function			
►/II	Playback			
▶▶ I	Auto search (cue)			
►/II ENTER	Stop			
SETUP	Menu			
$\triangle \nabla \triangleleft \triangleright$	Cursor operation / Auto search (cue, ∇)			
ENTER	Enter			



Listening to SiriusXM Internet Radio



Over 130 channels of the SiriusXM programming you love, including commercial-free music plus sports, talk, news and entertainment. Listen anywhere on your computer or smartphone.

Prepare for playback.

- 1) Check the network environment, then turn on this unit's power (Fpage 21 "Turning the power on").
- (2) If settings are required, make the "Setting the network [Network]" (Ppage 15).
- 3 Access the following website from vour PC and obtain a SiriusXM account.

http://www.siriusxm.com

• If you already have a SiriusXM account, you do not need to obtain a new account. Select "Sign in" in step 3, and enter your existing SiriusXM account.



Press ONLINE MUSIC to switch the input source to "SiriusXM".

• For details on selecting the input source using the unit buttons, see "Selecting the input source using the main unit" (Fpage 21).

Select "Sign in", then press **ENTER** or \triangleright .

Input "Username" and "Password".

• For character input, see page 40.

Select "Sign in", and then press ENTER or \triangleright . The top menu of SiriusXM is displayed.

Use $\triangle \nabla$ to select the genre, then press **ENTER** or \triangleright .

Use $\triangle \nabla$ to select the file, and then press **ENTER** or D.

The selected file is displayed.

☐ Sign out

Disassociate this unit from your SiriusXM account.

While the SiriusXM top menu is displayed, press <\lambda.

When the popup menu appears, use $\triangle \nabla$ to select "Yes", then press ENTER.



□ Switching the display

During playback, press INFO.

• The file type/bit rate, station name and album name are displayed.



□ SiriusXM operation

Operation buttons	Function			
►/II	Playback			
►/II ENTER	Stop			
SETUP	Menu			
$\triangle \nabla \triangleleft \triangleright$	Cursor operation			
ENTER	Enter			





Favorite function

This section provides information on the Favorite function.

- The Favorite function allows you to register your favorite broadcast stations and files in Favorite List in advance so that you can call and listen to the stations or files right away, whenever you want.
- The contents that you can register and call are Internet radio station and music server.
- You can register up to 50 items in Favorite List.

Registering stations or files to the favorites list

1 Press FAVORITE ADD while the Internet radio station or file to register is played back.

"Favorite" menu appears.

Press △∇to select a number to register the station or file, and press ENTER.

"Add to Favorite" is displayed and the registration is competed.



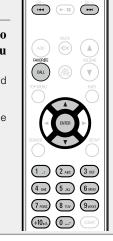
Calling stations or files from the favorites list

1 Press FAVORITE CALL. The Favorite list appears.

2 Press I → I or △∇ to select the station or file that you want to call, and press ENTER.

The respective function starts up and playback starts.

• Press **0 – 9**, **+10** to call files registered to the Favorite list by number.



□ To switch between registered stations and files during playback

Press $\blacksquare \blacktriangleleft \blacksquare$ or $\triangle \nabla$.

Deleting stations or files from the favorite list

1 Press FAVORITE CALL. The Favorite list appears.

Press △∇to select the station or file that you want to delete, and press CLEAR.

When the prompt "Delete?" appears, press ENTER.

"Deleted" is displayed and the deletion is competed.



☐ To cancel the operation

Press ◀.

iPod playback

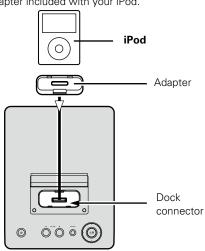
The unit can play back music stored on iPod, iPod touch, iPod classic, iPod nano and iPhone.

☐ **iPod** (**page** 47)

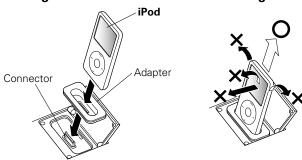
Connecting an iPod

□ iPod Dock

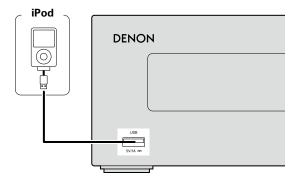
Open the lid and mount the adapter suited for your iPod onto the dock adapter included with your iPod.



Loading Dismantling



□ USB port



NOTE

- Please make sure to fit adaptor to connector part for use with your iPod.
- When plugging in or unplugging the iPod, please proceed carefully, adjusting the inclination of the connector so as not to place a burden upon the connector.



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

Playing an iPod

Press POWER (b) to turn on power to the main unit.

Press iPod to switch the input source to "iPod".

• For details on selecting the input source using the unit buttons, see "Selecting the input source using the main unit" (Page 21).

Press **MODE** to select the display mode.

> The display mode switches each time **MODE** is pressed.

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

Browse mode Display iPod information on the display of this unit.

Remote mode Display iPod information on the iPod screen.

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



Display mode		Browse mode	Remote mode
Display location		Main unit display	iPod display
Playable	Audio file	✓	✓
files	Video file		√ *
Active buttons	Remote control and main unit	√	√
	iPod		✓

- * Only audio is played back.
- The default display mode setting is "Remote mode".

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

Press ►/II. Playback starts.

NOTE

- 1st generation iPod nano and iPod video do not have remote mode
- DENON will accept no responsibility whatsoever for any loss of iPod
- Depending on the type of iPod and the software version, some functions may not operate.

□ Remote control and iPod button relations

Remote control buttons	iPod buttons	Operation on this unit	
i⊲⊲ , ⊳⊳i	 	Play the track from the beginning/Play the next track	
►/II	►II	Play the track / Pause the track	
(Press and hold)	[◄◄, ▶►] (Press and hold)	Fast-reverse the track/Fast-forward the track	
MODE	-	Switch between the browse mode and the remote mode	
abla	Click Wheel	Cursor operation (up /down)	
◁	MENU	Display the menu or return to the previous menu	
ENTER or ⊳	Select	Enter the selection or plays the track	
REPEAT	_	Switch the repeat function	
RANDOM	_	Switch the shuffle function	

□ Switching the display

During playback, Press INFO.

• The display switches each time INFO is pressed (Browse mode only).







☐ Playing repeatedly (Repeat playback)

(F) page 33)

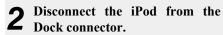
(Browse mode only)

☐ Playing random order (Random playback)

(**P** page 33)

Disconnecting the iPod

Press POWER & to set the standby mode.





Charging the iPod

You can charge your iPhone/iPod by connecting it to the dock connector or USB port.

□ Standby charging

If the unit enters power standby mode while the iPod/iPhone is charging, the unit will switch to standby charging mode, and the iPod/iPhone will continue to be charged. When in standby charging mode, the power display light turns red.

When the iPhone/iPod is fully charged, the unit automatically stops supplying power for charging and enters normal power standby mode, and the power display light turns off.



If an iPhone/iPod is connected to the dock connector while the unit is in power standby mode, the unit will enter standby charging mode and begin charging the iPhone/iPod.

Supported iPod models

• iPod classic



iPod classic 80GB



iPod classic 160GB (2007)



iPod classic 160GB (2009)

• iPod nano



iPod nano 3rd generation (video) 4GB 8GB



iPod nano 4th generation (video) 8GB 16GB



iPod nano 5th generation (video camera) 8GB 16GB



iPod nano 6th generation 8GB 16GB

• iPod touch



iPod touch 1st generation 8GB 16GB 32GB



iPod touch 2nd generation 8GB 16GB 32GB



iPod touch 3rd generation 32GB 64GB



iPod touch 4th generation 8GB 32GB 64GB

• iPhone



iPhone 4GB 8GB 16GB



iPhone 3G 8GB 16GB





iPhone 3GS 8GB 16GB 32GB



iPhone 4 8GB 16GB 32GB



iPhone 4S 16GB 32GB 64GB

(as of July 2012)



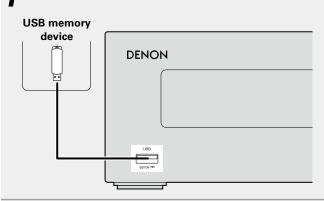
USB memory device playback

You can playback music stored on a USB memory device using this unit.

☐ USB memory device (page 47)

Playing files stored on USB memory devices

1 Connect the USB memory device to the USB port.



- **2** Press **POWER** \oplus to turn on power to the main unit.
- Press USB to switch the input source to "USB".
- For details on selecting the input source using the unit buttons, see "Selecting the input source using the main unit" (Fig. page 21).
- **4** Press $\triangle \nabla$ to select the file or folder, then press ENTER or \triangleright .
- Press △∇ to select the file, then press ENTER, ▷ or ►/II.

 Playback starts.



- 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.
- DENON 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.
- It is not possible to connect and use a computer via the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.
- Note that DENON 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.

Removing the USB memory device

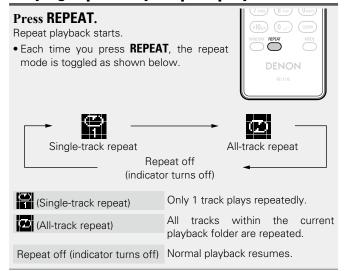
- **1** Press **POWER (b)** to set the standby mode.
- 2 Check that the communication indicator on the USB memory device is not flashing, then pull out the USB memory device.



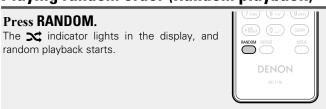
NOTE

Do not remove the USB memory device from the unit when the USB memory communication indicator is flashing. Doing so may damage the USB memory device, or may corrupt the files recorded on the USB memory device.

Playing repeatedly (Repeat playback)



Playing random order (Random playback)



☐ Canceling random playback

Press RANDOM.

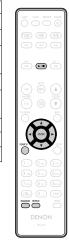
The x indicator on the display turns off.

USB memory device playback

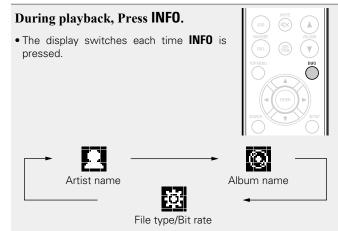
□ USB operation

Operation buttons	Function	
I ⊲⊲ , ▶▶I	Auto search (cue)	
►/II	Playback / Pause	
Δ∇	Cursor operation / Auto search (cue, $\triangle \nabla$)	
ENTER or ⊳	Enter / Playback	
◁	Display the menu or return to the previous menu	
SEARCH	Character search*1	
REPEAT	Repeat playback	
RANDOM	Random playback*2	

- *1 Press **SEARCH**, then press **ENTER** to select the first letter you want to search mode.
- *2 When playing files stored on a USB memory device using the random play function, when a track has finished playing, the next track is selected at random from all of the tracks on the device. For this reason, the same track may be played back to back.



☐ Switching the display







Listening to AUX

Prepare for playback. Check the connection, then turn on this

Press AUX to select "AUX: Analog In" or "AUX:Digital In".



• Pressing **AUX** switches the input source, as shown below.



Play the component connected to this unit.



Other digital audio signals than 2 channel linear PCM cannot be input through DIGITAL IN connector of this unit.



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

AirPlay function

Enjoy music from your iTunes library with DENON quality sound anywhere in your home.

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

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

Start the music mode on the iPhone or iPod touch.

is displayed on the iPhone or iPod touch screen.

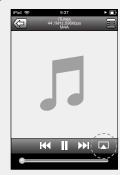
7 Tap the AirPlay icon **△**.

Set "Network Control" (Page 19) to "On" for this unit.

NOTE

When "Network Control" is set to "On", the unit consumes more standby power.

? Select the speaker you want to use.





Playing iTunes music on this unit

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

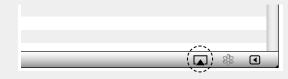
1 Turn this unit ON.

Set "Network Control" (page 19) to "On" for this unit.

NOTE

When "Network Control" is set to "On", the unit consumes more standby power.

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



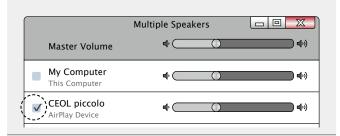
4 Choose a song and click play in iTunes. The music will stream to this unit.

☐ Multiple speakers

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

1 Click the AirPlay icon and select "Multiple Speakers" from the list.

7 Check the speakers you want to use.

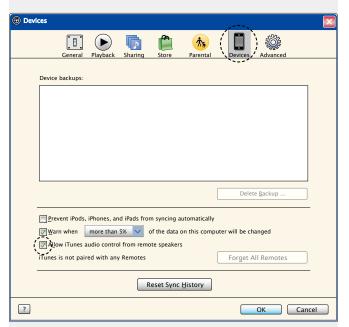


Remote operations

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

1 Open "Edit" – "Preferences" in iTunes, and click "Devices".

2 Check "Allow iTunes audio control from remote speakers".





- Source input will be switched to "AirPlay" when AirPlay playback is started
- To see artist name or album name together, press the **INFO**.
- For information about how to use iTunes, also see the Help for iTunes
- The screen may differ depending on the OS and software versions.
- When you connect iPod to the USB connector during AirPlay playback, AirPlay playback stops.

Remote play function

You can use your home network to play back with this unit music files stored on PC, NAS, mobile phones and portable audio players. In this case, you use PC, mobile phones and portable audio players for operations.



- The relevant devices should comply with the DLNA (Digital Living Network Alliance) Ver. 1.5 standard.
- A wireless LAN environment is required for playing back music files on mobile phones or portable audio players.
- For some mobile phones, you must install an application for DLNA music playback.

□ Roles each device plays

The following devices are used for Remote Play. As specified in the DLNA standard, these devices are called DMC, DMS or DMR according to their role.

Name	Device example	Role
DMC (Digital Media Controller)	PCMobile phonePortable audio player	Performs Remote Play operations. DMC can also play back music files stored on these devices.
DMS (Digital Media Server)	PCNAS(Network Attached Storage)	Stores music files. Music files stored on these devices are played back with DMC.
DMR (Digital Media Renderer)	• This unit	Outputs audio of music files played back through Remote Play from speakers. DMR cannot perform playback operations.

☐ Files that can be played back

See "Important information" – "About Music server" page 48).

Settings required for each device

You must make settings on DMC and DMS for Remote Play. Make the following settings. Also see the owner's manual of each device for settings.

☐ Settings on PC and NAS

Make settings on PC and NAS to exchange data with DMR devices. For settings, see "Applying media sharing settings" (F page 24).

☐ Settings on mobile phones

You must install an application for DLNA music playback on your mobile phone to perform operations on DMS and this unit (DMR) with your mobile phone. The applicable application differs according to your mobile phone.



Some mobile phones support DLNA music playback with the factory settings. See the owner's manual of your mobile phone.

☐ Settings on portable audio players

Make settings so that this unit (DMR) can play back music files stored on your portable audio player. For settings, see the owner's manual of your portable player.

☐ Settings on this unit

Connect this unit to the DLNA network. You do not need to make other settings.

For the network connection, see the provided Quick setup guide, "Connecting to a home network (LAN)" (***page 7) and "Setting the network [Network]" (***page 15).

□ Remote Play operations

Operations are different for each device, but the procedures for preparing for Remote Play are the same. The preparation procedures are shown below.

Turn on this unit.

• Make sure that this unit is connected to the network.

1 Display the music file playback screen on DMC.

- For PC, open Windows Media Player 12, etc.
- For mobile phones, switch to the music file playback mode.

Select the friendly name of this unit for the item that sets the playback device on the playback screen.

• The default friendly name of this unit is "CEOL piccolo".

Start playing back a music file on DMC.

• The function on this unit automatically switches to Music Server and the Remote Play mark () appears on the display. Remote Play starts.

NOTE

During Remote Play, you cannot perform playback operations with this unit. Use the DMC device for these operations.

□ To exit Remote Play

Press 4.

• The Remote Play mode ends.

Web control function

You can control this unit from a web control screen on a web browser.



- This unit and the PC need to be connected to the network properly (repage 7 "Connecting to a home network (LAN)") in order to use the web control function.
- Depending on the settings of your security-related software, you
 may not be able to access this unit from your PC. If this is the case,
 then change the settings of the security-related software.

1 Switch the "Network Control" setting to "On" (page 19).

2 Check the IP address of this unit with "Network Information".

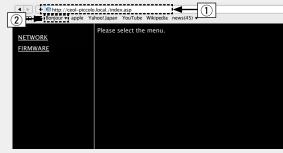


Checking the IP address.

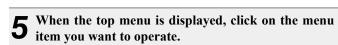
? Start up the web browser.

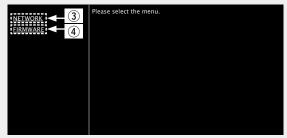
4 Enter the IP address of this unit in browser's address box.

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



- 1) Entering the IP address.
- By adding this unit's IP address to the browser's bookmark, you can display the web control screen using the bookmark function the next time you use the browser. If you are using a DHCP server and "Network Control" (*** page 19**) is set to "Off", turning the power on/off changes the IP address.
- ② If you are using the Safari web browser, you can select "Bonjour" and directly access the unit's web control screen from the overview section.

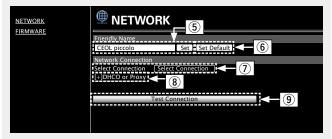




- ③ Click when you setup network settings. @[Example 1]
- 4 Click when you update firmware (propage 13)



[Example 1] Network Setting 1



Friendly Name setting

- (§) To change the Friendly Name, enter the new name in the text box and click "Set".
- 6 To reset the Friendly Name, click "Set Default".

Network connection settings

⑦ Click to change the network connection method. If you select "Wi-Fi", a new item will appear on-screen.

(Example 2)

8 Click to change DHCP/proxy settings.
(FETExample 2))

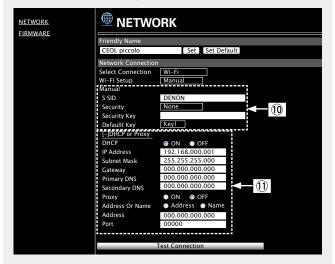
9 Click to connect using the newly applied settings.

NOTE

To apply network connection settings, click "Test Connection" after making changes.

7 Operate.

[Example 2] Network Setting 2



Network connection settings

① Various items will be displayed if you selected "Wi-Fi" in Example 1. Select or input items as necessary, and then click "Test Connection" to apply the changes.

NOTE

- Items displayed may vary depending on selected items and connection status.
- After selecting each item, wait a moment for the display to be updated.
- ① Displayed if "DHCP" or "Proxy" is selected in Example 1. When changing DHCP/proxy settings, input or select for each item.

NOTE

To apply network connection settings, click "Test Connection" after making changes.

Other functions

Inputting characters

On this unit, the names displayed for "Friendly Name" and search, screens can be changed as desired.

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

Method	Operations		
Using the number buttons	 Operating with the remote control. Multiple characters are assigned to a button, and each time the button is pressed, a character is switched. 		
Using the cursor buttons	 Operating with the remote control or the main unit. Use △∇⊲ ▷ and ENTER to input characters. 		

☐ Display of an input screen

[Friendly name input]



Using the number buttons

- **1** Display the screen for inputting characters.
- Place the cursor at the character to be changed with \triangleleft ▷ and press 0 9, +10 until the desired character is displayed.



- The types of characters that can be input are as shown below.
- 1.@-_/:~
- 6 MNO mnoMNO6
- 2 ABC a b c A B C 2
- 7_{PQRS} pqrsPQRS7
- 3 DEF defDEF3 4 GHI ghiGHI4
- 8 TUV tuvTUV8
- girdir.

- The input character type can be switched by pressing **+10** while the display name is being changed.
- Press **CLEAR** to delete the character.
- For entering the characters assigned to one number button continuously, press > to move the cursor to the right after entering a character then enter the next character.
- For entering characters assigned to separate buttons, press the number button continuously. The cursor automatically moves to the next position, and the entered character is registered.

Repeat step 2 to change the name then press ENTER to register it.

Example: For changing characters from "POPS" to "ROCK"

① Place the cursor at "P".	P OPS
② Press 7 ^{ngs} seven times. "P" changes to "R".	▶ ROPS
③ Press > twice. "R" is automatically registered, and the cursor placed "P".	▶ROPS
④ Press ^{2,86} six times. "P" changes to "C".	▶ R O C S
⑤ Press ▷. "C" is registered and the cursor placed "S".	▶ ROC <mark>S</mark>
⑥ Press ^(5 ,sc.) five times. "S" changes to "K".	▶ ROC <mark>K</mark>
? Press ENTER to register the input name.	

Using the cursor buttons

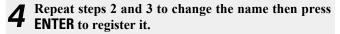
- **1** Display the screen for inputting characters.
- **2** Use < > to set the cursor to the character you want to change.
- **3** Use $\triangle \nabla$ to change the character.



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

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

- The input character type can be switched by pressing **+10** while the display name is being changed.
- Press **CLEAR** to delete the character.
- Press ►►I to insert a space.



Auto power on function

When you press INTERNET RADIO, ONLINE MUSIC, MUSIC SERVER, iPod, AUX, USB, ▶/II or FAVORITE CALL, the corresponding device is turned on and the source automatically switches.

 When you press ►/II, the previously selected source is played back.



Last function memory

This stores the settings as they were immediately before going into the standby mode.

When the power is turned back on, the settings are restored to as they were immediately before going into the standby mode.

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.

┩ Pull the power cord out of the power outlet.

Plug the power cord into a power outlet while pressing **VOLUME** $\Delta \nabla$ on the main unit.



When the power indicator lights white, release the buttons.

"Initialized" appears in the display.



If "Initialized" does not display in step 3, start over from step 1.

Information

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

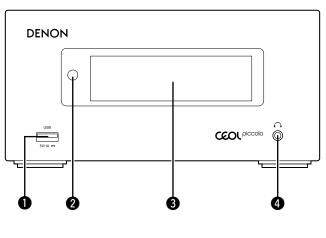
- **■** Explanation terms **□** page 49
- Troubleshooting **** page 51**
- Specifications **page 54**
- Index **©** page 55

Information

Part names and functions

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

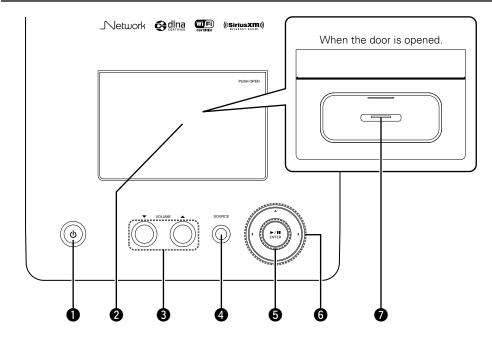
Front panel



- 1 USB port (30, 33)
 Used to connect iPod or USB memory devices.
 2 Remote control sensor (3)
 3 Display
 Displays play status, settings, etc.
 4 Headphones jack (22)
- NOTE

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

Top panel



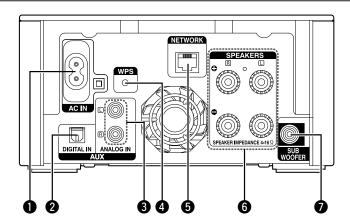
(b).....(21)
Turns power to this unit on and off (standby).

Turns power to this unit on and off (standby).
The power indicator changes as shown below according to the status of the unit.

- Power on : White
- Standby : Off
- Network Control "On" : Red
- iPod charge standby : Red
- Alarm standby : Orange
- **2** Door(30)
- **3** VOLUME buttons (▲▼).....(21)

- 4 Input source select button (SOURCE) (21)
 Selects the input source.
- **5** Play/Pause button (►/II) (21) ENTER button (21)
- **6** Cursor button (△∇◁▷).....(21)
- Dock connector (30)

Rear panel

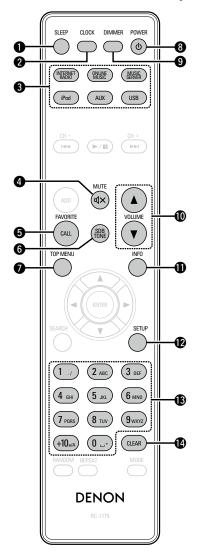


1 AC inlet (AC IN)(8)	5 ETHERNET connector (NETWORK)(7
2 DIGITAL IN connector(6)	6 Speaker terminals (SPEAKERS)
3 ANALOG IN connectors(6)	SUBWOOFER connector(5
4 WPS button(17)	

Remote control

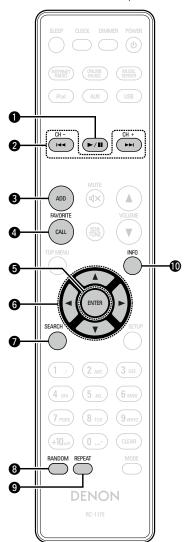
This section explains the buttons used to playback each input source.

☐ Buttons that work with all input sources



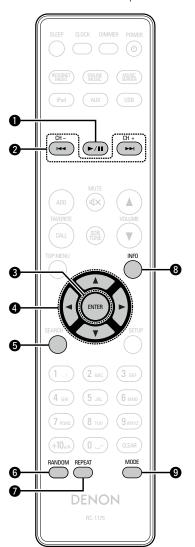
<u>2</u>)
<u>1</u>)
1)
<u>2</u>)
<u>9</u>)
<u>2</u>)
<u>9</u>)
1)
<u>2</u>)
1)
<u>(3</u>)
<u>5</u>)
<u>(0</u>
<u>.1</u>)

☐ Buttons that work when the input source is "Internet Radio", "Music Server", "Pandora" or "Sirius XM" "Buttons that work with all input sources" can also be used.



● Play/Pause button (►/II)	(<u>23</u>)
Provided Reverse-skip/Forward-skip buttons (I◄◄, ▶►I)	(<u>25</u>)
3 FAVORITE ADD button	(<u>29</u>)
4 FAVORITE CALL button	(<u>29</u>)
5 ENTER button	(<u>23</u>)
6 Cursor buttons (△▽< ▷)	(<u>23</u>)
SEARCH button	(<u>23</u>)
8 RANDOM button	(<u>25</u>)
9 REPEAT button	(<u>25</u>)
nformation button (INFO)	····· (<u>23</u>)

☐ Buttons that work when the input source is "iPod" or "USB" "Buttons that work with all input sources" can also be used.



Play/Pause button (►/II)	(<u>30</u> , <u>33</u>)
2 Reverse-skip/Forward-skip butte	
(I◀◀, ▶▶I)	······ (<u>30</u> , <u>34</u>)
3 ENTER button	(<u>30</u>)
4 Cursor buttons ($\triangle \nabla \triangleleft \triangleright$)	(<u>30</u>)
5 SEARCH button	····· (<u>34</u>)
6 RANDOM button	······ (<u>30</u> , <u>33</u>)
REPEAT button	······ (<u>30</u> , <u>33</u>)
3 Information button (INFO)	····· (<u>30</u> , <u>34</u>)
9 MODE button	(<u>30</u>)

iPod





"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.

AirPlay, the AirPlay logo, iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

 Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.

USB memory device

Playing back music files recorded on a USB memory device.

Important information

- 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.
- This unit is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.
- File types that this unit can play back and specifications are shown below.

[Supported file types]

Supported file types	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)	✓

- *1 USB memory device
 - This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
 - This unit is compatible with WMA META tags.
 - WAV format Quantization bit length: 16 bits.
 - FLAC format Quantization bit length: 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.

NOTE

File types that this unit does not support are not displayed.

[Compatible formats]

[Companie formats]				
	Sampling frequency	Bit rate	Bit length	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	ı	.mp3
WAV	32/44.1/ 48/88.2/ 96/176.4/ 192 kHz	-	16 / 24 bit	.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/ 96/176.4/ 192 kHz	_	16 / 24 bit	.flac

☐ Maximum Number of Playable Files and Folder

The limits on the number of folders and files that can be displayed by this unit are as follows.

Media Item	USB memory devices	
Memory capacity	FAT16 : 2 GB, FAT32 : 2 TB	
Number of folder directory levels *1	8 levels	
Number of folders	500	
Number of files *2	5000	

- *1 The limited number includes the root folder.
- *2 The allowable number of files may differ according to the USB memory device capacity and the file size.

Important information

■ 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 region.
- Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.
- Your favorite radio stations can be registered by accessing an exclusive DENON 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: http://www.radiodenon.com
- 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.

☐ About Music server

This function lets you play music files and playlists (m3u, wpl) stored on a computer (music 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

[Types of files that can be played back by each function]

	Internet radio	Music server *1
WMA (Windows Media Audio)	✓	✓
MP3 (MPEG-1 Audio Layer-3)	✓	✓
WAV		√
MPEG-4 AAC		√*2
FLAC (Free Lossless Audio Codec)		✓

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

- *1 Music server
 - This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
 - This unit is compatible with WMA META tags.
 - If the image size (pixels) of an album artwork exceeds 500×500 (WMA/MP3/WAV/FLAC) or 349×349 (MPEG-4 AAC), then music may not be played back properly.
- *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.

[Playback file specifications]

	Sampling frequency	Bit rate	Bit length	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/ 48/88.2/ 96/176.4/ 192 kHz	-	16 / 24 bit	.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/ 96/176.4/ 192 kHz	_	16 / 24 bit	.flac

NOTE

Particularly when you play back large music files, depending on your wireless LAN environment, the playback sound may be interrupted. In this case, make the wired LAN connection.

□ About Pandora®

Pandora is an automated music recommendation and Internet radio service created by the Music Genome Project.

To listen to Pandora you will need a free Pandora account. If you do not have a Pandora account, you can create one at www.pandora.com or from the Pandora smartphone application.

It is necessary to associate this machine with a Pandora account by visiting http://www.pandora.com/denon from your PC.

□ About SiriusXM

SiriusXM Internet Radio delivers over 130 channels of the SiriusXM programming you love, including commercial-free music plus sports, talk, news and entertainment. Listen anywhere on your computer, tablet, smartphone or other compatible internet device.

SiriusXM Internet Radio subscription sold separately and available only to those at least 18 years of age residing in the U.S., Canada, and Puerto Rico. To subscribe to SiriusXM Internet Radio in the U.S., U.S. customers should visit www.siriusxm.com or call 1-888-539-7474. Canadian customers should visit www.sirius.ca or call 1-888-539-7474.

Explanation terms

Α

AES (Advanced Encryption Standard)

This is a next generation standard encryption method replacing the current DES and 3DES, and because of its high security it is expected to be applied widely to wireless LANs in the future. It uses the "Rijndael" algorithm developed by two Belgian cryptographers to divide the data into blocks of fixed lengths and encrypt each block. It supports data lengths of 128, 192 and 256 bits and key lengths of 128, 192 and 256 bits as well, offering extremely high encryption security.

AirPlay

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

В

Bit rate

This expresses the read amount per 1 second of video/audio data recorded in a disc. A larger number means higher sound quality, but also means a larger file size.

D

DLNA

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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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IEEE 802.11b

This is one wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States. It uses the 2.4 GHz band usable freely without a radio frequency license (ISM band), enabling communications at a maximum speed of 11 Mbps.

 The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

IEEE 802.11g

This is another wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States, and is compatible with IEEE 802.11b. It also uses the 2.4 GHz band, but enables communications at a maximum speed of 54 Mbps.

 The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

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.

М

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".

Ν

Network Names

(SSID: Security Set Identifier)

When forming wireless LAN networks, groups are formed to prevent interference, data theft, etc. This grouping is done by "SSID" or "Security Set Identifiers". For further security, a WEP key is set and signal transfer is not possible unless the SSID and WEP key match.

F

Protection circuit

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

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

9

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.

TKIP (Temporal Key Integrity Protocol)

This is a network key used for WPA. The encryption algorithm is RC4, the same as for WEP, but the security level is increased by changing the network key used for encryption for each packet.

V

vTuner

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: http://www.radiodenon.com

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.

W

WEP Key (Network Key)

This is key information used for encrypting data when conducting data transfer. On this unit, the same WEP key is used for data encryption and decryption, so the same WEP key must be set on both devices in order for communications to be established between them.

Wi-Fi®

Wi-Fi Certification assures tested and proven interoperability by the Wi-Fi Alliance, a group certifying interoperability among wireless LAN devices

Windows Media DRM

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.

Windows Media Player Ver. 11 or later

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

It can be used to play playlists created with Windows Media Player Ver. 11 or later as well as files in such formats as WMA, DRM WMA, MP3 and WAV.

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.

WPA (Wi-Fi Protected Access)

This is a security standard established by the Wi-Fi Alliance. In addition to the conventional SSID (network name) and WEP key (network key), it also uses a user identification function and encrypting protocol for stronger security.

WPA2 (Wi-Fi Protected Access 2)

This is a new version of the WPA established by the Wi-Fi Alliance, compatible with more secure AES encryption.

WPA-PSK/WPA2-PSK (Pre-shared Key)

This is a simple authentication system for mutual authentication when a preset character string matches on the wireless LAN access point and client.

WPS (Wi-Fi Protected Setup)

This is a standard drawn up by the Wi-Fi Alliance to ease the task of setting up wireless LAN connections and configuring security.

There are two methods: push-button and PIN (Personal Identification Number) code.

Troubleshooting

If a problem occurs 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. If the problem persists, there may be a malfunction.

In this case, disconnect the power immediately and contact your retail outlet.

[General]

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	Reset the microprocessor.	<u>41</u>
Display not lit and sound not produced when power switched to on.	Power cord not plugged in securely.	Check the connections on the set's rear panel and the connection of the power plug to the power outlet.	80]
Display lit but sound not	• The speaker cables are not properly connected.	Connect securely.	<u>5</u>
produced.	• The function is not switched to the input source you want to play.	Switch to the correct function.	<u>21</u>
	• The volume is set too low.	Adjust the volume to an appropriate level.	<u>21</u>
Display is off.	• The Dimmer setting is set to "Off".	• Set to something other than "Off".	<u>22</u>
For stereo sources, the positions of the instruments are inverted.	The connections of the speaker cables or input cables are inverted.		<u>5</u> – <u>8</u>
Power turns off suddenly and POWER indicator flashes red. (Flashes at 0.25 second intervals)	• Set is damaged.	Turn off the power and contact a DENON service center.	-
"No Network Connection" is displayed.	• The network is not properly set up.	Select a source other than the network function. Perform "Quick Setup".	21 Quick setup
			guide

[Internet radio/Music server/iPod/USB memory device/SiriusXM]

Internet radio/i	riadic del vertir dar dob illemo	y action on assum	
Symptom	Cause	Countermeasure	Page
When a USB	• The set cannot recognize a USB	Check the connection.	<u>33</u>
memory device	memory device.		
is connected,	• A USB memory device not	• Connect a USB memory device	_
"USB" is not	conforming to mass storage	conforming to mass storage	
displayed.	class or MTP standards is	class or MTP standards.	
	connected.		
	• A USB memory device that	• This is not a malfunction. DENON	_
	the set cannot recognize is	does not guarantee that all USB	
	connected.	memory devices will operate or	
		receive power.	
	• USB memory device is	• Connect the USB memory	_
	connected via USB hub.	device directly to the USB port.	
iPod cannot be	• The input source is set to	• Switch the input source to	<u>21</u>
played.	something other than "iPod".	"iPod".	
	Cable is not properly connected.	Reconnect.	<u>30</u>
Files on a USB	• USB memory device is in a	• Set the format to FAT16 or	_
memory device	format other than FAT16 or	FAT32. For details, refer to the	
cannot be played.	FAT32.	USB memory device's operating	
		instructions.	
	• USB memory device is divided	• When divided into multiple	_
	into multiple partitions.	partitions, only files stored in the	
		top partition can be played.	
	• Files are stored in a non-	• Record the files in a compatible	<u>47</u>
	compatible format.	format.	
	• You are attempting to play a file	Files that are copyright protected	<u>47</u>
	that is copyright protected.	cannot be played on this set.	
Internet radio	• Ethernet cable is not properly	Check the connection status.	<u>7</u>
cannot be played.	connected or network is		
	disconnected.		
	• Program is being broadcast in	Only Internet radio programs in	<u>48</u>
	non-compatible format.	MP3 and WMA can be played on	
		this set.	
	• The computer's or router's	· ·	_
	firewall is activated.	firewall settings.	
	• Radio station is not currently	• Choose a radio station that is	<u>23</u>
	broadcasting.	currently broadcasting.	
	 IP address is wrong. 	 Check the set's IP address. 	<u>15</u>

Symptom	Cause	Countermeasure	Page
Files stored on a computer cannot	• Files are stored in a non-compatible format.	Record in a compatible format.	<u>48</u>
be played.	 You are attempting to play a file that is copyright protected. Set and computer are connected by USB cable. 	 Files that are copyright protected cannot be played on this set. The set's USB port cannot be used for connection to a computer. 	<u>48</u> -
Server is not found, or it is not possible to	The computer's or router's firewall is activated.Computer's power is not turned	• Check the computer's or router's firewall settings. • Turn on the power.	_
connect to the server.	on.Server is not running.Set's IP address is wrong.	Launch the server.Check the set's IP address.	_ <u>15</u>
Cannot connect to favorite radio stations.	 Radio station is not currently broadcasting. Radio station is not currently in service. 	Wait a while before trying again.It is not possible to connect to radio stations that are no longer	-
For some radio stations, "Server Full" or "Connection Down" is displayed and station cannot be connected to.	Station is congested or not currently broadcasting.	in service. • Wait a while before trying again.	-
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.	-

[Pandora®]

(Pandora [®])			
Symptom	Cause	Countermeasure	Page
Cannot login to Pandora. ("Email address" or "Password" is displayed.)	Login information is incorrect.	Check if the "Email address" for Pandora has been properly entered. Re-enter the "Password". (Password is not displayed.)	<u>26</u>
"Account is no longer active" is displayed.	Your account has expired.	Obtain a new account. Contact Pandora Listener Support at pandora-support@pandora.com.	-
"Pandora is only available for use in United States" is displayed.	You are trying to access from a country where Pandora is not available.	Pandora is not available in all countries. Please check http://blog.pandora.com/faq/ .	-
"Incorrect Email or Password" is displayed.	You entered an incorrect account or password for the login authentication.	Enter the correct email address and password.	<u>26</u>
"No skips remaining" is displayed.	You may only skip up to 6 tracks per station, per hour (and free Pandora accounts are limited to 12 skips per day). When the skips are used up, no more forward/ skip operation is available.	Unfortunately, our music licenses force us to limit the amount of tracks you can skip in an hour.	-
"100 Station Limit" is displayed.	You have already registered 100 stations. You can not register a new station.	Reduce the number of stations to fewer than 100.	_
"Please Try Again Later" is displayed.	Pandora is performing system maintenance.	Please try again later.	_

[Wireless LAN]

[Wireless LAN]			
Symptom	Cause	Countermeasure	Page
Cannot connect to network.	• The settings of the SSID and network key (WEP) are incorrect.	Match the network settings with this unit settings.	<u>18</u>
	The reception is poor and the signals cannot be received.	Shorten the distance from the wireless LAN's access point, remove any obstacles and otherwise improve visibility, then try reconnecting. Also install away from microwave ovens and the access points of other networks.	-
	There are multiple networks and the usable channels overlap.	Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable.	-
	• The router power is off.	• Turn on the router power.	
Cannot achieve network connection using the WPS button.	The encryption type on the router is set to "WEP" or "TKIP".	Set the encryption type to "None", "WPA-PSK(AES)" or "WPA2-PSK(AES)" before establishing connection.	<u>17, 18</u>
Played sound is interrupted or sound cannot be played.	There are multiple networks and the usable channels overlap.	Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable.	-

[AirPlay]

Symptom	Cause	Countermeasure	Page
The AirPlay icon is not displayed in iTunes or on	This unit and the computer or iPhone/iPod touch are not connected to the same network (LAN).	l l	7
the iPhone/iPod touch.	iTunes or the iPhone/iPod touch do not have firmware that supports AirPlay installed.	Update to the latest firmware.	<u>12</u>
No sound.	• This unit is not selected in the screen that is displayed when iTunes or the iPhone/iPod touch is started.	iPhone/iPod_touch, click the	<u>35</u>

[Remote control]

Symptom	Cause	Countermeasure	Page
Set does not	Batteries are worn.	Replace with new batteries.	<u>3</u>
work properly when remote	• You are operating outside of the specified range.	• Operate within the specified range.	<u>3</u>
control operated.	Obstacle between main unit and remote control.	Remove the obstacle.	_
		 Insert the batteries in the proper direction, following the polarity marks in the battery compartment. 	
	The set's remote control sensor is exposed to strong light (direct sunlight, fluorescent light, etc.).	Move the set to a place in which the remote control sensor will not be exposed to strong light.	_

Specifications

□ Audio AMP	
Rated output:	2-channel driving
.	65 W + 65 W (4 Ω, 1 kHz, T.H.D. 0.7 %)
Dynamic power:	80 W + 80 W (4 Ω) Speaker 4 = 16 Ω
Output terminals:	Speaker 4 – 16 Ω Suited for headphones/stereo headphones
Input sensitivity/impedance:	AUX: 200 mV/22 k Ω
Total harmonic distortion (1 kHz, 5 W, 8 Ω):	AUX: 0.05 %
S/N ratio (10 W, 8 Ω, IHF-A):	AUX: 86 dB
Tone control:	SDB: 100 Hz +8 dB
	BASS : 100 Hz ± 10 dB
_	TREBLE : 10 kHz ± 10 dB
Frequency response:	10 Hz – 40 kHz (+0.5 dB, –3 dB) (SOURCE DIRECT: ON
□ Wireless LAN	
Network type (wireless LAN standards):	Conforming to IEEE 802.11b
	Conforming to IEEE 802.11g (Conforming to Wi-Fi [®])*
Transfer rate:	DS-SS: 11 / 5.5 / 1 Mbps (Automatic switching)
ranster rate:	OFDM: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps
	(Automatic switching)
Security:	SSID (Network name)
	WEP key (network key) (64/128 bits)
	WPA-PSK (TKIP/AES) WPA2-PSK (TKIP/AES)
Used frequency range:	2.412 MHz – 2.462 MHz
No. of channels:	Conforming to IEEE 802.11b : 11 ch (DS-SS) (Of which 1
NO. Of Chamiers.	channel used)
	Conforming to IEEE 802.11g: 11 ch (OFDM) (Of which
	channel used)
☐ Clock/Alarm	
Clock type:	Power line frequency synchronized method (Within ±60
	seconds per month)
Alarm:	Everyday alarm / Once alarm : One system each
	Sleep timer : Max. 90 minutes
☐ Power supply	
Power supply voltage/frequency:	AC 120 V, 60 Hz
Power consumption:	55 W
Power consumption in standby mode:	0.3 W
Power consumption in	0.14
"Network Control" – "On" mode:	3 W
* Wi-Fi® conformity indicates tested and proven in	nteroperability by the "Wi-Fi Alliance", a group certifyin

- ng interoperability among wireless LAN devices.

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

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