

DENON

WIRELESS NETWORK MUSIC SYSTEM


S-32

Owner's Manual


Manuel de l'Utilisateur

Manual del usuario

□ 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.

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IMPOTANT SAFETY INSTRUCTIONS

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



CAUTION:

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should 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.

ATTENTION:

- La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.
- Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil.
- Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.
- L'appareil ne doit pas être exposé à l'eau ou à l'humidité.
- Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil.

PRECAUCIÓN:

- La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc.
- No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas.
- A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente.
- No exponer el aparato al goteo o salpicaduras cuando se utilice.
- No colocar sobre el aparato objetos llenos de líquido, como jarros.

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.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared. El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

FCC Information (For US customers)

1. COMPLIANCE INFORMATION

Product Name: Wireless Network Music System

Model Number: S-32

This product contains FCC ID: BV2- MPGBR052.

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
 100 Corporate Drive, Mahwah, NJ 07430-2041
 Tel. 201-762-6500 (Main)

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 6963A-MPGBR052.

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.

APPAREIL

Cet appareil contient IC 6963A- MPGBR052.

Cet appareil est conforme à la norme CNR-210 du Canada. L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

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

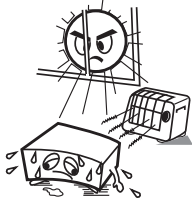
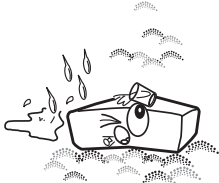

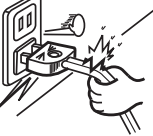


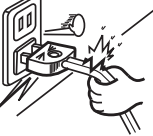


2. CAUTION

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.

ATTENTION

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante.

NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO

 <ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. 	 <ul style="list-style-type: none"> • Keep the unit free from moisture, water, and dust. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Mantenga el equipo libre de humedad, agua y polvo. 	 <ul style="list-style-type: none"> • Do not let foreign objects into the unit. • Ne pas laisser des objets étrangers dans l'appareil. • No deje objetos extraños dentro del equipo.
 <ul style="list-style-type: none"> • Unplug the power cord when not using the unit for long periods of time. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. 		 <ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the unit. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. 	 <p>* (For apparatuses with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Ne pas obstruer les trous d'aération. • No obstruya los orificios de ventilación. 	 <ul style="list-style-type: none"> • Never disassemble or modify the unit in any way. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Nunca desarme o modifique el equipo de ninguna manera.

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Getting Started

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

Accessories

Check that the following parts are supplied with the product.

① Remote control (RC-1089).....	1
② R03/AAA batteries.....	2
③ AM loop antenna.....	1
④ FM indoor antenna.....	1
⑤ Rod antenna for wireless LAN.....	1
⑥ Power cord (Cord length: Approx. 6 ft / 2 m).....	1
⑦ Universal Adapter (3 types).....	1 each
⑧ Owner's manual.....	1
⑨ Warranty (for North America model only).....	1
⑩ Service station list.....	1

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 traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

• About condensation

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

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

• Cautions on using mobile phones

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

• Moving the unit

Turn off the power and unplug the power cord from the power outlet.

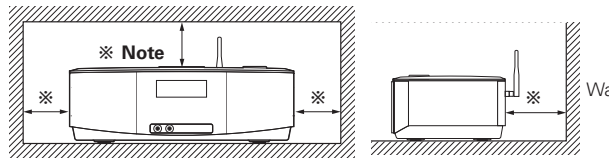
Next, disconnect the connection cables to other system units before moving the unit.

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

Cautions on Installation

Note:

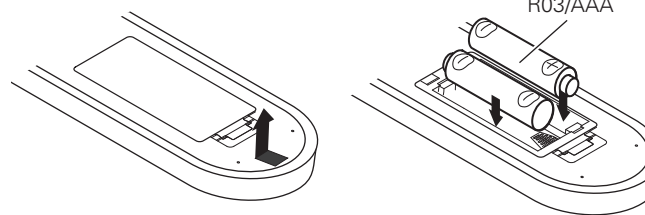
For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.



About the Remote Control Unit

Inserting the Batteries

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



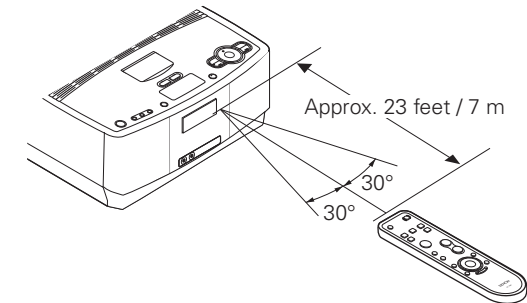
- ③ Put the rear cover back on.

NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the “⊕” 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.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating Range of the Remote Control Unit

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



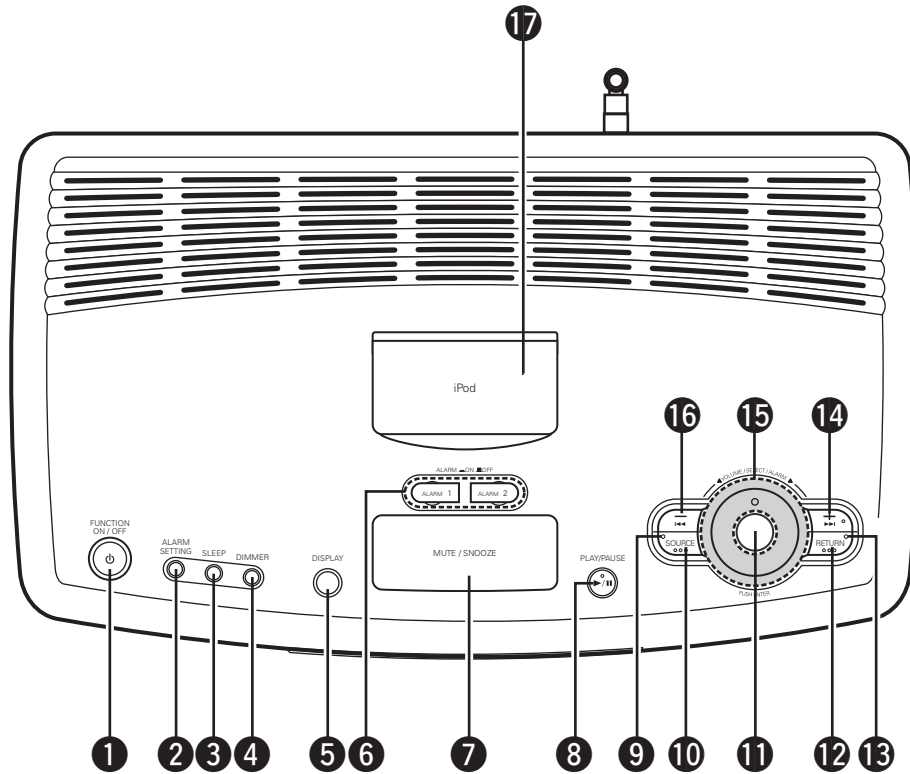
NOTE

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

Part Names and Functions

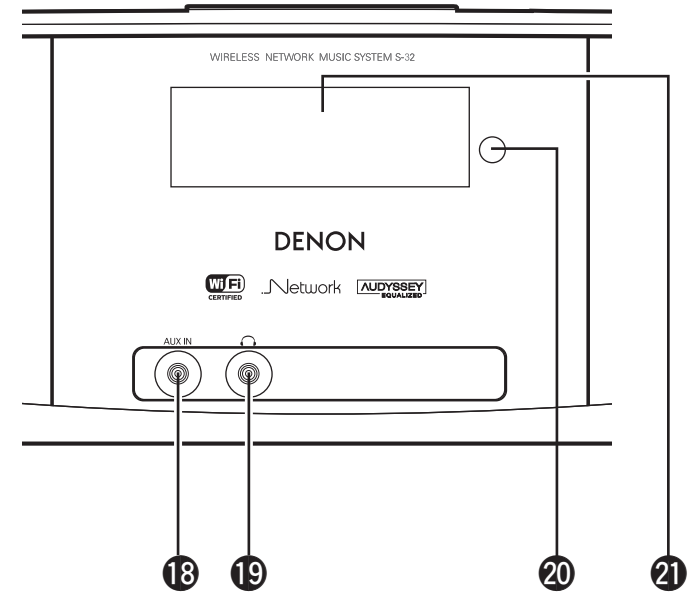
For buttons not explained here, see the page indicated in parentheses ().

Top Panel



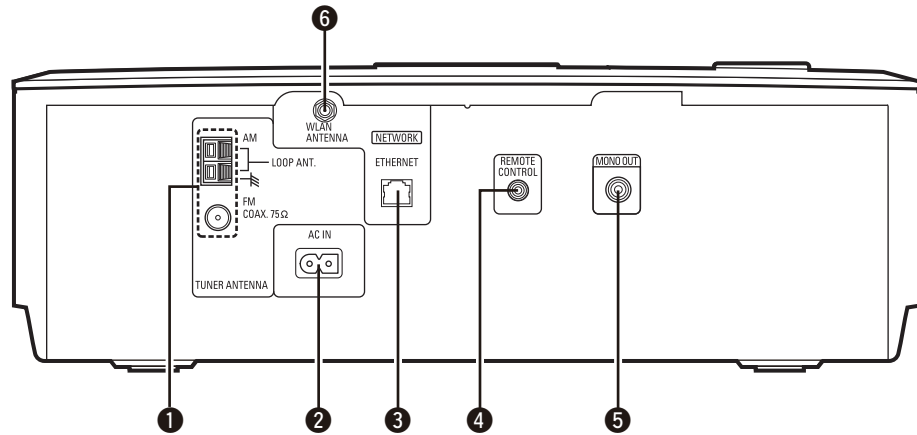
- 1 Power operation button (FUNCTION ON / OFF) (12)
- 2 ALARM SETTING button (20)
- 3 SLEEP button (21)
- 4 DIMMER button (13)
- 5 DISPLAY button (13)
- 6 ALARM1, 2 ON / OFF buttons (20)
- 7 MUTE / SNOOZE button (12, 20)
- 8 PLAY / PAUSE button (▶/||) (17)
- 9 SOURCE indicator (12)
- 10 SOURCE button (8)
- 11 ENTER button (8)
- 12 RETURN button (8)
- 13 RETURN indicator (12)
- 14 Forward-skip / Fast-forwarding button (▶▶) (15)
- 15 Multi jog dial / Master volume control (8, 12)
- 16 Reverse-skip / Fast-reversing button (◀◀) (15)
- 17 Dock for iPod (5)

Front Panel



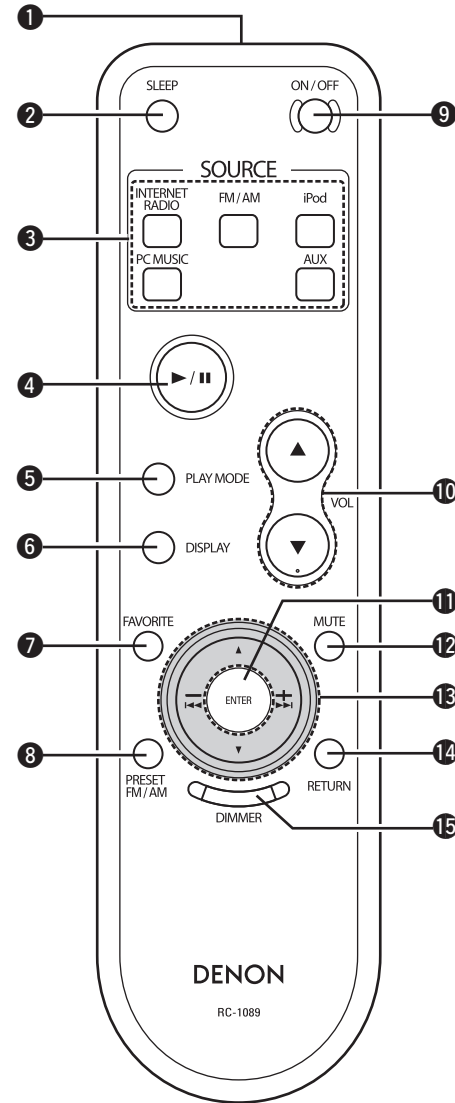
- 18 AUX IN jack (19)
- 19 Headphones jack (◡) (13)
- 20 Remote control sensor (2)
- 21 Display

Rear Panel



- ❶ FM/AM antenna terminals (TUNER ANTENNA) (5)
- ❷ AC inlet (AC IN) (7)
- ❸ ETHERNET connector (6)
- ❹ REMOTE CONTROL jack
This jack will be used in the future for additional functions.
- ❺ Monaural audio connector (MONO OUT) (6)
- ❻ WLAN ANTENNA terminal (6)

Remote Control Unit



- ❶ Remote control signal transmitter (2)
- ❷ SLEEP button (21)
- ❸ SOURCE select buttons (12)
- ❹ Play / Pause button (▶/||) (17)
- ❺ PLAY MODE button (17)
- ❻ DISPLAY button (13)
- ❼ FAVORITE button (19)
- ❽ PRESET FM/AM button (18)
- ❾ Function ON / OFF button (12)
- ❿ Master volume control buttons (VOL) (12)
- ⓫ ENTER button (8)
- ⓬ Muting button (MUTE) (12)
- ⓭ Cursor (Δ ∇) / Skip (I◀◀▶▶I) / TUNING + - buttons (8, 15, 18)
- ⓮ RETURN button (8)
- ⓯ DIMMER button (13)

Connections

Connections for all compatible audio signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the S-32. For details, refer to the instructions for the respective connection items below.

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the owner's manual of the other components.

Preparations

Cables Used for Connections

Select the cables according to the equipment being connected.

Audio cables

Analog connections (Subwoofer)

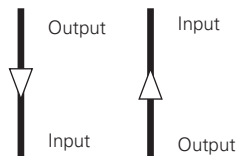


Network connections (Wired LAN)



Signal direction

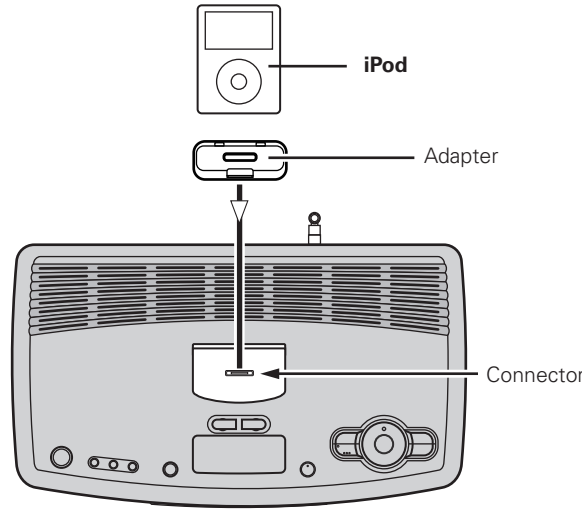
Audio signal:



Connecting the Playback Components

iPod®

Open the lid and mount the adapter suited for your iPod onto the S-32's adapter insertion slot.



NOTE

Note that leaning the iPod forward or backward when connecting it to or disconnecting it from the dock for iPod may damage the connector.



Keep the dock for iPod's lid closed when your iPod is not connected to prevent any foreign objects from getting inside.

Stamped indication	iPod connectable to the S-32
mini	iPod mini
Photo 20, 30GB	iPod Photo 30GB/iPod 20GB with color display
Photo 60GB	iPod Photo 60GB/iPod 40GB with color display

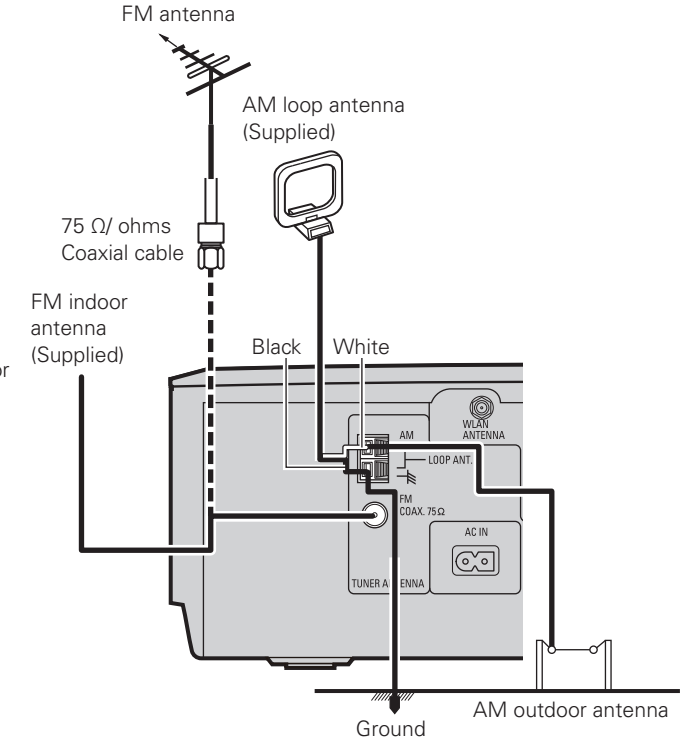
Connections to Other Devices

Antenna Terminals

An FM antenna cable plug can be connected directly.

AM/FM

Direction of broadcasting station



Note to CATV system installer:

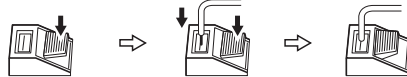
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

AM loop antenna assembly

- ① Remove the vinyl tie and take out the connection line.
 - ② Connect to the AM antenna terminals.
 - ③ Bend in the reverse direction.
 - ④ Mount
 - a. With the antenna on top any stable surface.
 - b. With the antenna attached to a wall.
- Installation hole Mount on wall, etc.

Connection of AM antennas

1. Push the lever.
2. Insert the conductor.
3. Return the lever.

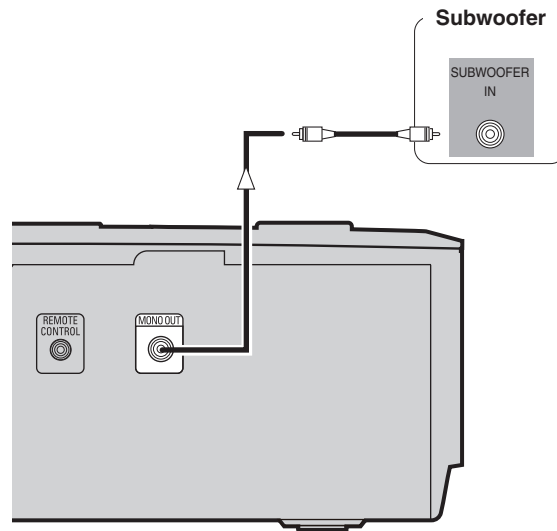


NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Connection to a Subwoofer

Use connected to a subwoofer.

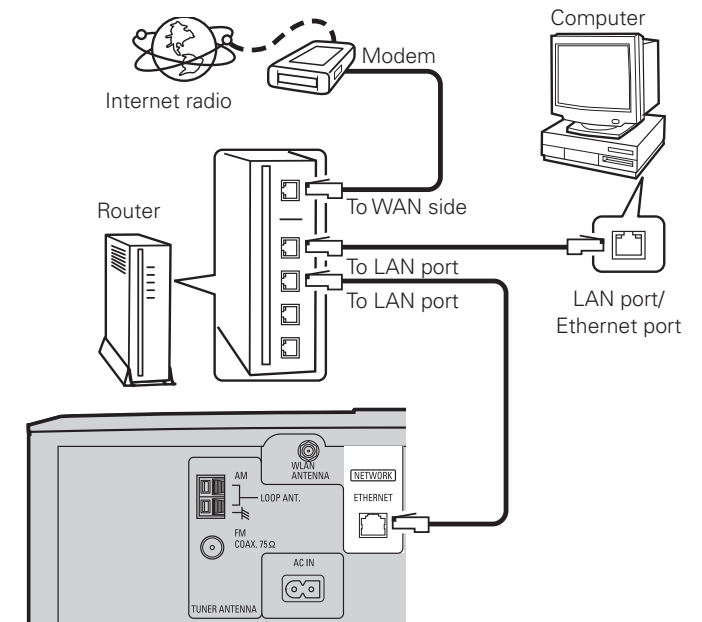


NOTE

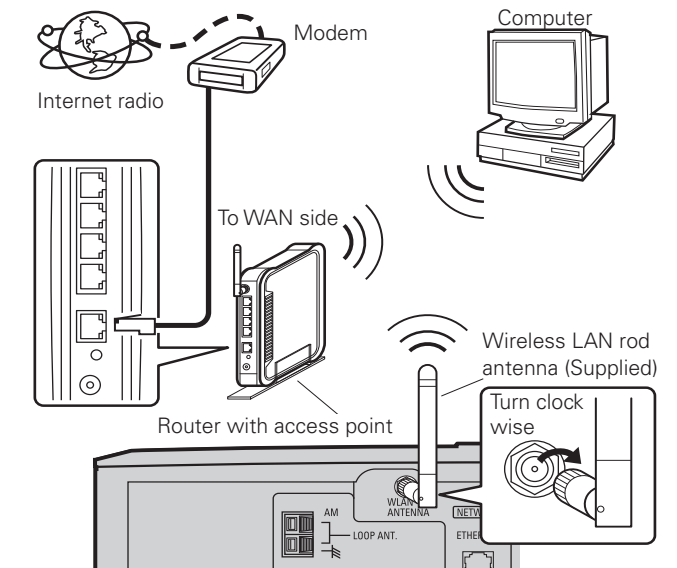
When turning the power ON/OFF:
 ON: First turn on the power to the main unit, then turn on the power to the subwoofer.
 OFF: First turn off the power to the subwoofer, then turn off the power to the main unit.

Network Audio

[Wired LAN]



[Wireless LAN]



Required System

❑ Broadband Internet Connection

A broadband line connection to the Internet is required in order to use the S-32's Internet radio function.

❑ Modem

This is a device that is connected to the broadband line to communicate with the Internet.

❑ Router

When using the S-32, we recommend you to use a router equipped with the following functions:

- Built-in DHCP (Dynamic Host Configuration Protocol) server
This function automatically assigns IP addresses on the LAN.
- Built-in 100 BASE-TX switch

When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

❑ Ethernet Cable (CAT-5 or greater recommended)

The S-32 does not come with an Ethernet cable. Purchase a cable of the required length.

❑ Computer

A computer with the following specifications is required to operate the music server:

- OS
Windows® XP Service Pack2, Windows Vista
- Software
.NET Framework 1.1, Windows Media Connect (Windows XP), Windows Media Player Ver.11
- Internet browser
Microsoft Internet Explorer 5.01 or later
- LAN port
- 300 MB or more free disk space

※Free space is required to save music files. The following sizes are approximate.

Format	Bit rate	Per minute	Per hour
MP3 / WMA	128 kbps	Approx. 1 MB	Approx. 60 MB
	192 kbps	Approx. 1.5 MB	Approx. 90 MB
MPEG-4 AAC	256 kbps	Approx. 2 MB	Approx. 120 MB
	392 kbps	Approx. 3 MB	Approx. 180 MB
WAV (LPCM)	1400 kbps	Approx. 10 MB	Approx. 600 MB
FLAC	1080 kbps	Approx. 7.7 MB	Approx. 464 MB

(1 MB = 10⁶ bytes)



- Depending on the server, video files may be displayed, but they cannot be played on the S-32.
- For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.
- The types of routers that can be used depend on the ISP. Contact an ISP (Internet Service Provider) or a computer shop for details.

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.

❑ Others

- If you have an ISP contract for a line on which network settings are made manually, make the settings at "Network Setting" (page 9, 10).
- When using a broadband router (DHCP function), the S-32 makes the network settings automatically, so there is no need to make them yourself.
- If connecting the S-32 to a network with no DHCP function, make the settings at "Network Setting" (page 9, 10).
- The S-32 is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a line of the type with which the PPPoE is set.
- Depending on the ISP with which you have your contract, it may be necessary to make proxy server settings to use the Internet radio function. If you made proxy server settings on the computer to connect to the Internet, make the same proxy server settings on the S-32.
- The S-32 uses the DHCP and Auto IP functions to make the network settings automatically.

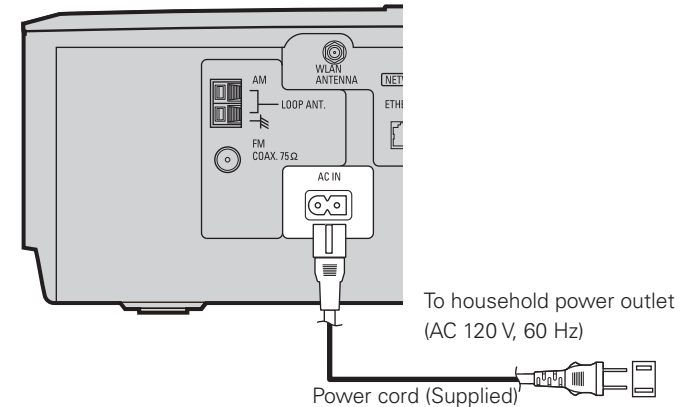
❑ Ethernet Cable (CAT-5 or greater recommended)

No Ethernet cable is included with the S-32. Procure a cable with the necessary length.

NOTE

Be sure to use a shielded type cable for Ethernet connections. Depending on the connected computer/router, there may be much noise generated from the cable.

Connecting the Power Cord



NOTE

- Only use the supplied power cord.
- Be sure the power cord is unplugged from the power outlet before connecting or disconnecting it to the AC inlet.

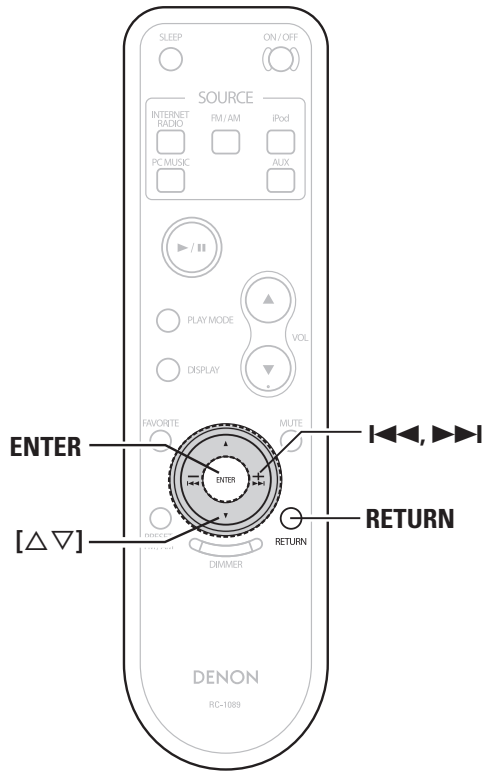
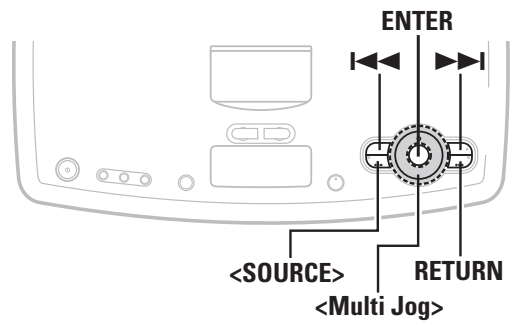
Protector circuit

The protection circuit will be activated in the following cases:

- When the temperature around the set is extremely high
- When the set is used for long periods of time with a high output and the internal temperature rises

Speaker output is suspended when the protector circuit operates. In this case, remove the power cord, make sure there is adequate ventilation and wait for the main unit to cool down. Afterwards, re-insert the power cord.

If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.



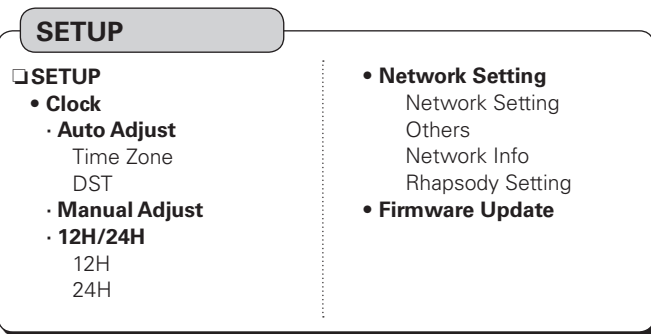
Menu Operations

With the S-32, settings and operations for most functions can be performed by operating while looking at the menu displayed on the display.

Operations

- 1** Press **<SOURCE>**.
The menu is displayed.
- 2** Turn **<Multi Jog>** or press **|<<>>|** to select "SETUP", then press **ENTER**.
- 3** Turn **<Multi Jog>** or press **[Δ∇]** to select the menu to be set or operated.
※ To return to the previous item, press **RETURN**.
- 4** Press **ENTER** to enter the setting.

Menu Map

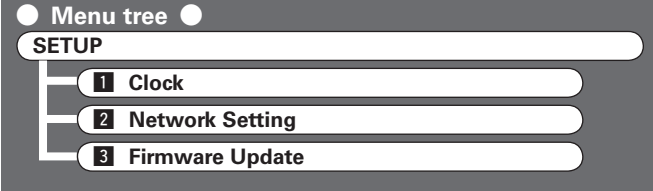


Setup

SETUP



Use the procedures described below to make various settings.



1 Clock

Use this procedure to set the time.

Auto Adjust

Connect to the network to set the current time automatically.

[Selectable items]

- Time Zone** : Choose the region in which the set is installed in order to correct for the time difference.
- DST** : Make the daylight saving time setting.

NOTE

Network connections are required.

Manual Adjust

Set the current time manually.



When setting the time, turn **<Multi Jog>** on the main unit clockwise to move the time forward, counterclockwise to move the time backward.

12H/24H

Choose whether to display the time in the 12-hour or 24-hour mode.

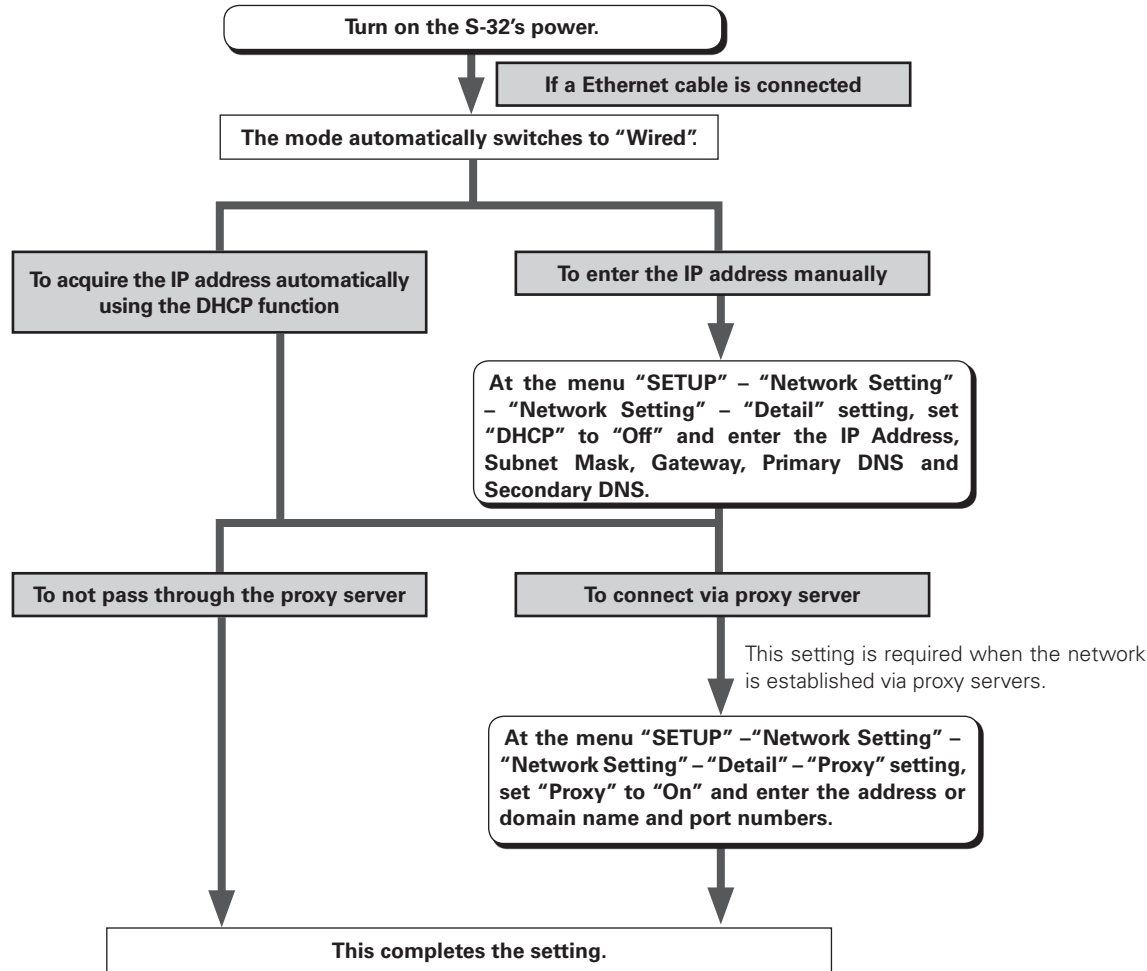
About the button names in these explanations
 < > : Buttons on the main unit
 [] : Buttons on the remote control unit
Button name only:
 Buttons on the main unit and remote control unit

2 Network Setting

Make settings for wired or wireless LAN.

Wired LAN

Make settings for wired LAN.

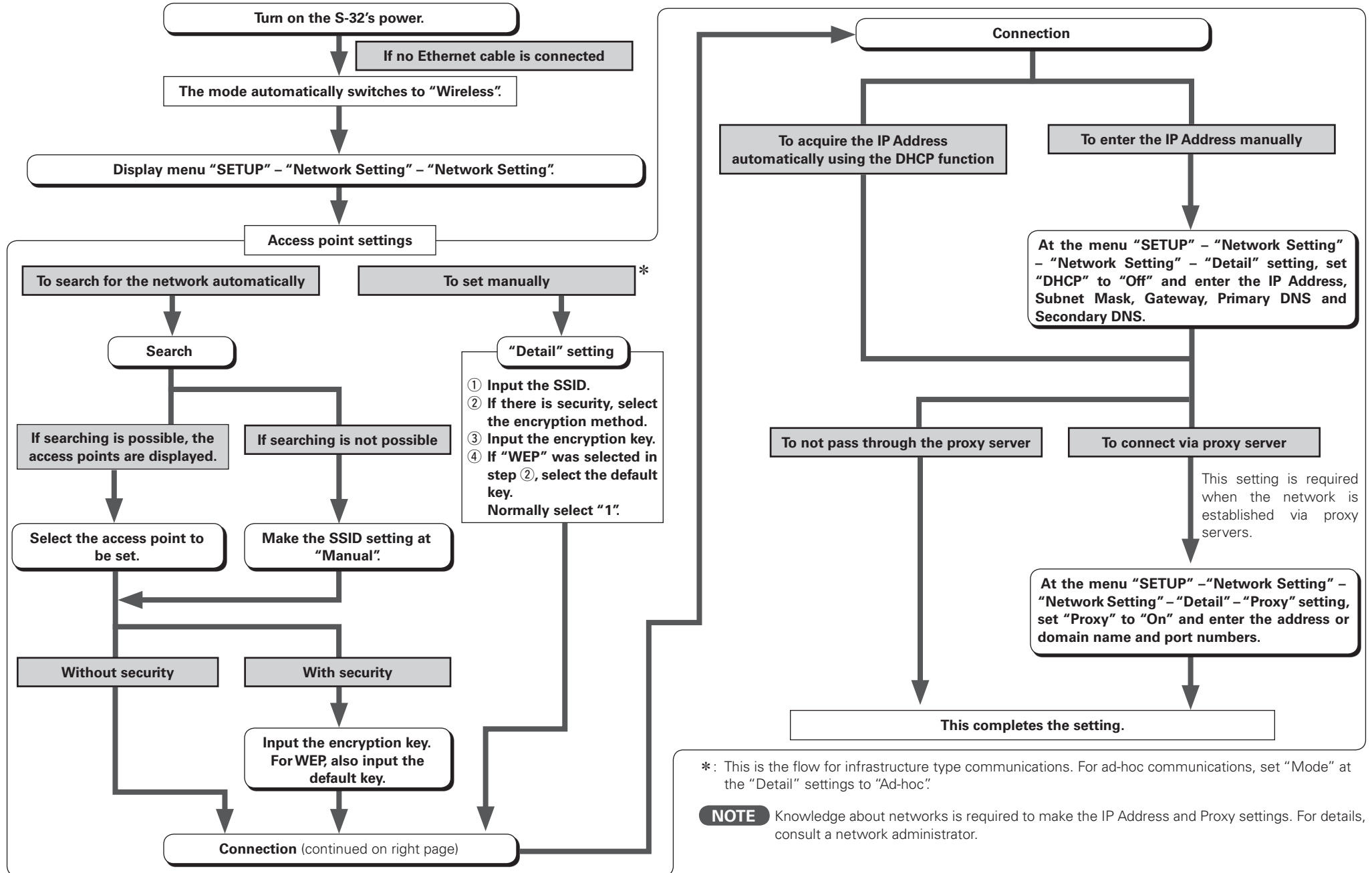


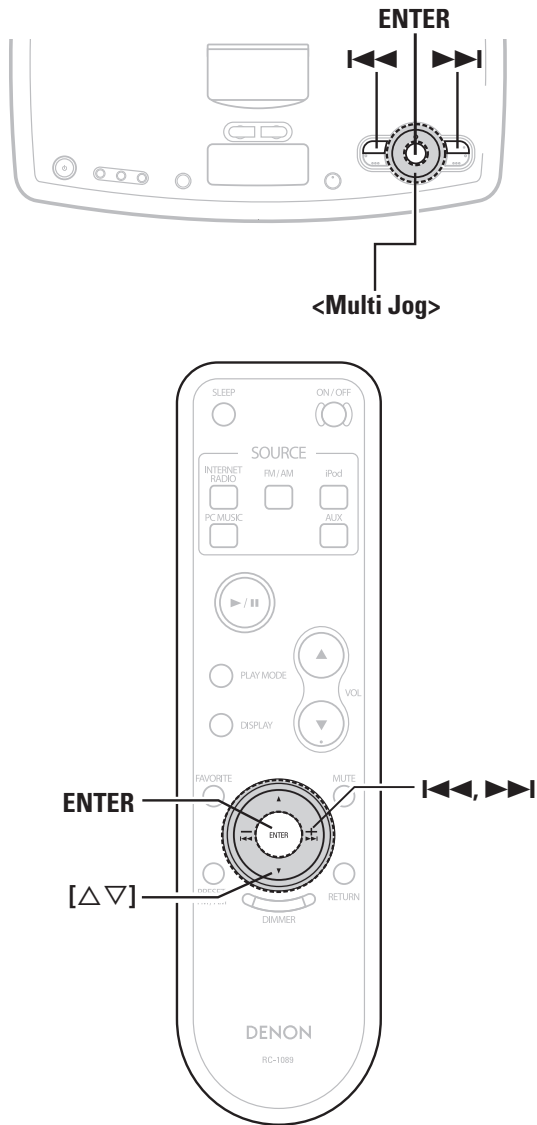
Recheck the connections and settings if you cannot connect to the Internet (☞ page 6).

NOTE Knowledge about networks is required to make the IP Address and Proxy settings. For details, consult a network administrator.

Wireless LAN Settings

Make settings for wireless LAN.





Other

Make setting for computer language environment.

PC Language

Select computer environment language.

[Selectable items]

ara	chi (smp)	chi (trad)	cze	dan	dut	eng	fin
fre	ger	gre	heb	hun	ita	jpn	kor
nor	pol	por	por (BR)	rus	spa	swe	tur

Default Language

Select the language you want to display Internet Radio information.

[Selectable items]

English	German	French	Italian
Spanish	Nederlandish	Swedish	

Network Information

Display network information.

[Items to be checked]

DHCP= On or Off	MAC Address	IP Address	Subnet Mask
Gateway	SSID	Key	Default Key

Rhapsody Setting

Set or change Username and Password.
 "Listening to Rhapsody" (☞ page 16)

How to Enter Characters

- 1 Either turn <Multi Jog> or press [Δ▽] to choose the letter to be inserted.
- 2 Use |◀◀▶▶| to choose the cursor position.
 ※ Repeat operation 1.2.
- 3 Once you are finished inputting, press ENTER.

3 Firmware Update
 Update the firmware.

Normally there is no need to use this function, aside from the cases described below.

- The Firmware Update function is only used for updating the firmware via the Internet, for example for the purpose of adding functions to the S-32 in the future.
- Information regarding the Firmware Update function will be announced on the DENON web site each time related plans are defined.
- A broadband connection to the Internet is required to use this function (☞ page 9).
- Even with a broadband connection to the Internet, approximately 30 minutes is required for the updating procedure to be completed. Once updating starts, normal operations on the S-32 cannot be performed until updating is completed. Furthermore, updating the firmware may reset the backup data for the parameters, etc., set for the S-32.

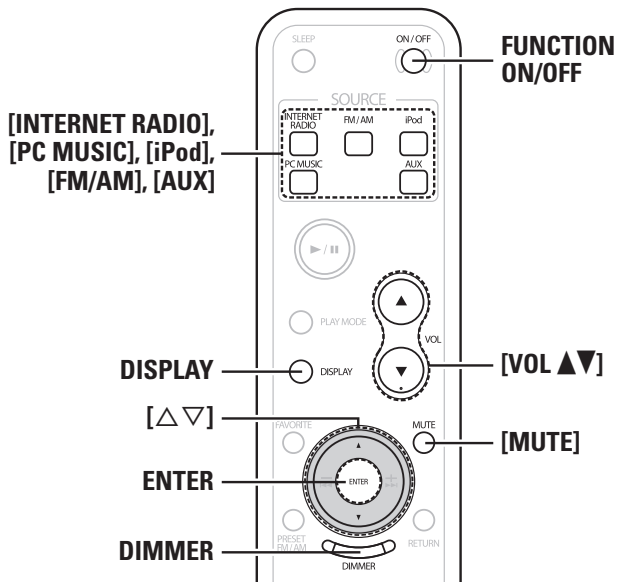
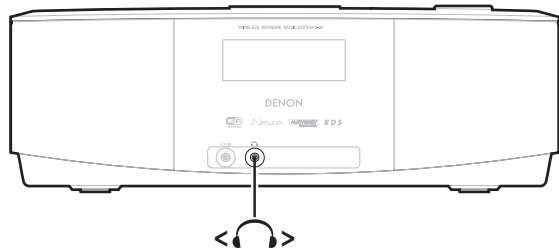
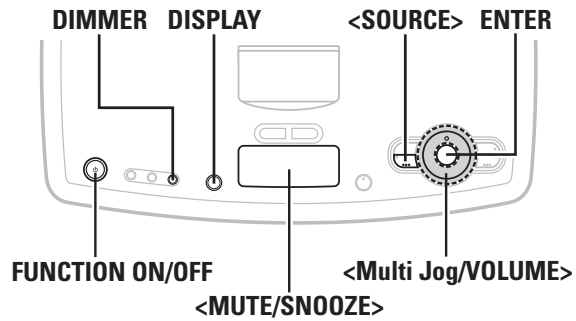
NOTE

- Connection to the network and specific settings are required to update the firmware. For details, see page 6, 9.
- Do not turn off the power until updating is completed.

About the button names in these explanations

< > : Buttons on the main unit
 [] : Buttons on the remote control unit

Button name only:
 Buttons on the main unit and remote control unit



About the button names in these explanations

- < > : Buttons on the main unit
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Button name only:

Buttons on the main unit and remote control unit

Playback

Preparations

Turning the Function ON and OFF

Press **FUNCTION ON/OFF**.

ON : Power ON, Function ON

OFF : Power ON, Function OFF

- The time is displayed.
- An iPod can be charged and the alarm can be operated.

Setting the Power to the Standby Mode

Press **FUNCTION ON/OFF** and hold it in for at least two seconds.

Standby : Low power consumption mode
(Power consumption: 0.4 W)

- The alarm can be operated.

Turning the Sound Off Temporarily (Muting)

Press **<MUTE / SNOOZE>** or **[MUTE]**.



To cancel, either press **<MUTE/SNOOZE>** or **[MUTE]** again or adjust the volume using **<VOLUME>** or **[VOL ▲▼]**.

Viewing Information During Playback

During playback, press **ENTER** to display the playback information. Either turn **<Multi Jog>** or press **[▲▼]** to select the information.

※ Information is only displayed when it is available.

Canceling track information

Press **ENTER** again to return to the previous display.

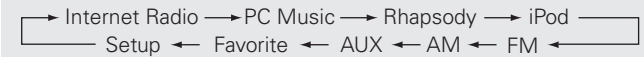
※ Information is only displayed when it is available.

Input Source Switching

Operation on the Main Unit

1 Press **<SOURCE>**.

The "SOURCE" indicator lights.



2 Turn **<Multi Jog>** to select the input source, then press **ENTER**.

Operation on the Remote Control Unit

Press **[INTERNET RADIO]**, **[PC MUSIC]**, **[iPod]**, **[FM/AM]** or **[AUX]** to select the input source.

[Selectable items]

Internet Radio : You can listen to the Internet radio.

PC Music : You can listen to music files stored on a computer (music server).

Rhapsody : You can listen to the Rhapsody.

iPod : You can listen to music stored on an iPod.

FM, AM : You can listen to AM or FM broadcasts.

AUX : You can listen to the sound of an AUX IN jack.

Favorite : You can register and call out your favorites.

Setup : You can set the time and network.

Adjusting the Master Volume

Either turn **<VOLUME>** or press **[VOL ▲▼]**.

The volume level is displayed.

※ Operate **<Multi Jog>** while the "SOURCE" and "RETURN" indicators are off to adjust the sound.

Switching the Display

Press DISPLAY.

During playback, the time is displayed. The time is also displayed when the power is turned on.

Switching the Display's Brightness

Press DIMMER.

The brightness switches each time this is pressed.



Listening with Headphones

Plug the headphones (sold separately) into .

※ The sound from the speakers is automatically cut off.

NOTE

Be careful not to set the volume too high when using headphones.

Playing Network Audio

This procedure can be used to play Internet radio stations or music stored on a computer.

□ About the Internet radio function

- Internet radio refers to radio broadcasts distributed over the Internet. Internet radio stations from around the world can be tuned in.
 - The S-32 is equipped with the following Internet radio functions:
 - Stations can be selected by genre and region.
 - Internet radio stations can be preset.
 - 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.
 - The S-32's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for the S-32. vTuner services may be discontinued without notice.

□ Music server

- This function lets you play music files and playlists (m3u, wpl) stored on a computer (music server) connected to the S-32 via a network.
- With the S-32'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

Installing Windows Media Player ver. 11

- ① If Windows XP Service Pack 2 has not yet been installed, either download it free of charge from Microsoft or install it via a Windows update installer.
 - ② Download the latest version of Windows Media Player ver. 11, either directly from Microsoft or using a Windows update installer.
- ※ When using Windows Vista, there is no need to download a new version of Windows Media Player.

NOTE

The S-32 connects to the network when the power is turned on and when the input is switched to a network audio source ("Internet Radio", "PC Music" or "Rhapsody").

Depending on the network connection environment and the load on the server being accessed, some time may be required to connect to the network.

[Compatible formats]

	Internet radio	Music server [※]
WMA (Windows Media Audio)	○	○
MP3 (MPEG-1 Audio Layer-3)	○	○
WAV *	–	○
MPEG-4 AAC	–	○*
FLAC (Free Lossless Audio Codec)	–	○

*: Only files that are not protected by copyright can be played on the S-32.

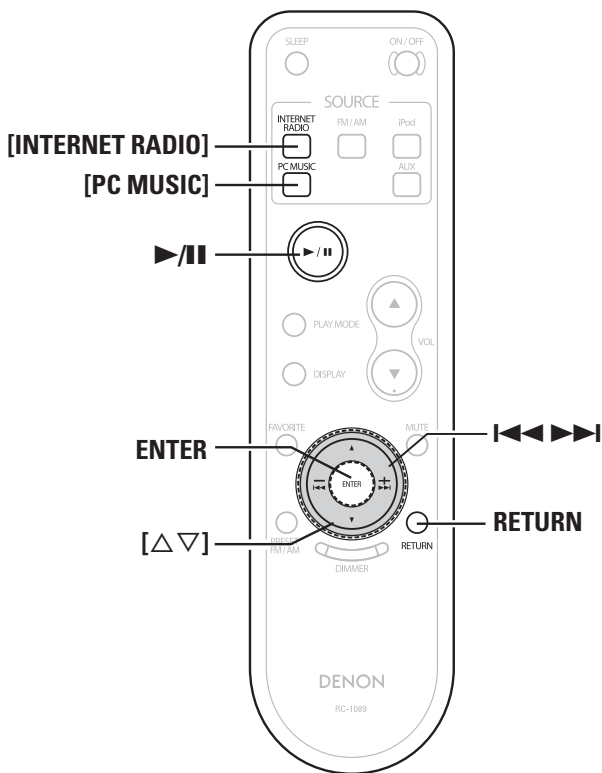
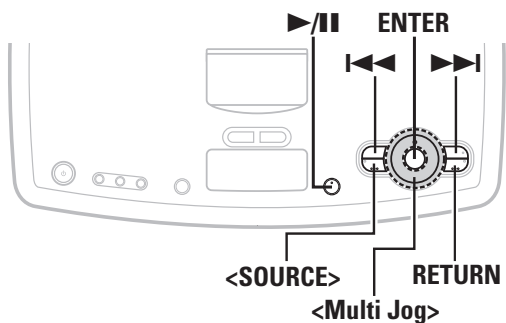
※ Contents downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc., on a computer may be copyright protected, depending on the computer's settings.

- The S-32 is compatible with MP3 ID3-Tag (Ver. 2) standards.
- The S-32 is compatible with WMA META tags.

[Playable formats]

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48~192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32~320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC	32/44.1/48 kHz	16~320 kbps	.aac/.m4a/.mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48 kHz	–	.flac

WAV format Quantization bit rate: 16 bits.



About the button names in these explanations

< > : Buttons on the main unit
 [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Listening to Internet Radio



Tuning in Broadcast Stations

1 Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select “Internet Radio” then press the ENTER, or press [INTERNET RADIO].

※ The display changes as follows each time you press a remote control button.

Internet Radio ↔ Rhapsody

2 Either turn <Multi Jog> or press [Δ ∇] to select the item you want to play, then press ENTER.

The station list is displayed.

A “♪” mark is indicated in front of stations that can be played.

3 Either turn <Multi Jog> or press [Δ ∇] to select the station, then press ENTER.

Playback starts once buffering reaches “100%.”

To stop

During the play or pause mode, press and hold in ▶/|| for at least 2 seconds.



- Before listening to Internet radio
 - Check the network environment, then turn on the S-32’s power. (“Turning the Function ON and OFF” (page 12), “Network Audio” (page 6).)
 - If settings are required, make the network settings. (“Network Setting” (page 9, 10).)
- There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely. Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted. Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted.
- “Server Full” or “Connection Down” is displayed if the station is busy or not broadcasting.
- On the S-32, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with “.” (period).“

Registering Internet Radio Stations as Your Favorites

Internet Radio stations can be stored in the favorites and played. “Favorite” (page 19)

Listening to PC Music



Playing Files Stored on a Computer

Use this procedure to play music files or playlists.

1 Either turn <Multi Jog> or press **◀◀ ▶▶** after pressing <SOURCE> to select “PC Music” then press **ENTER**, or press **[PC MUSIC]**.

2 Either turn <Multi Jog> or press **[△ ▽]** to select the host name of the computer on which the music file you want to play is located, then press **ENTER**.

3 Either turn <Multi Jog> or press **[△ ▽]** to select the search item or folder, then press **ENTER**.

※ When a folder is selected and **▶||** is pressed, playback of the files in the folder begins.

4 Either turn <Multi Jog> or press **[△ ▽]** to select the file, then press **ENTER**.

※ During playback, press **▶||** to pause. Press **▶||** again to resume playback.

※ Press **RETURN** during playback to return to the previous menu screen.

※ Press **ENTER** during play to change to Artist display or Album display.

Selecting tracks

During playback, either press **◀◀** (reverse track) or **▶▶** (forward track).



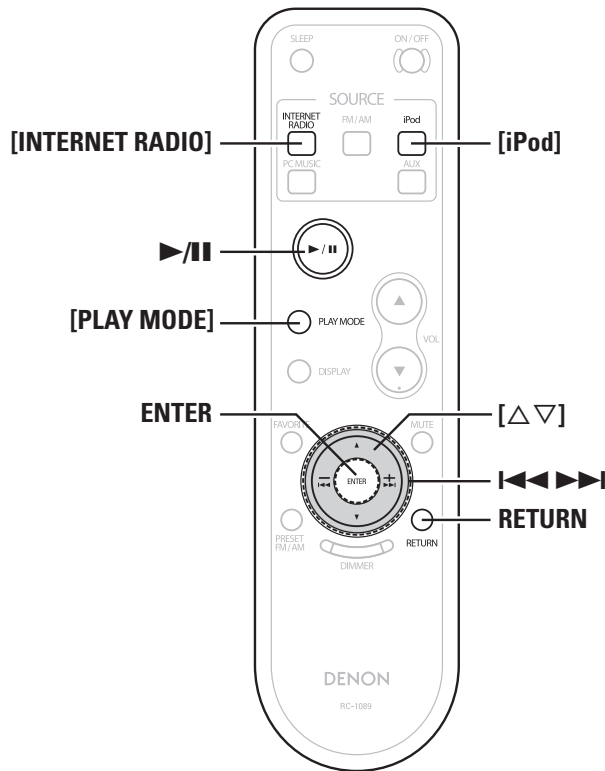
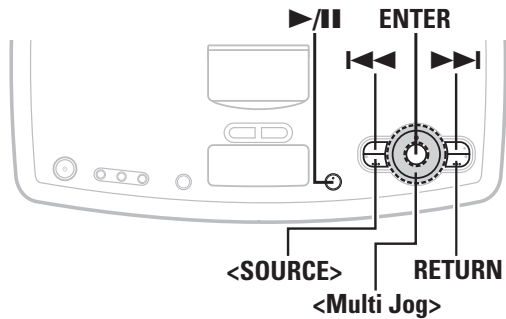
- Connections to the required system and specific settings must be made in order to play music files (☞ page 7).
- Before starting, you must launch the computer’s server software and set the files as server contents. For details, see the operating instructions of your server software.

Registering PC Music as Your Favorites

Music files can be stored in the favorites and played. “Favorite” (☞ page 19)

NOTE

- Favorites are erased by overwriting them.
- When the operation described below is performed, the music server’s database is updated and it may no longer be possible to play or registering music files.
 - When you quit the music server and then restart it.
 - When music files are deleted or added on the music server.



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Listening to Rhapsody



About Rhapsody

Rhapsody is a paid music broadcast service of RealNetworks.

Listening to Rhapsody

When you first listen to Rhapsody, take advantage of the "30-day free trial". When the free trial period has expired, it is necessary to subscribe to a Rhapsody account at the Rhapsody homepage and register this machine. See the Rhapsody homepage for details.

- 1** Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select "Rhapsody" then press ENTER, or press [INTERNET RADIO].

※ The display changes as follows each time you press a remote control button.

Internet Radio ↔ Rhapsody

- 2** Either turn <Multi Jog> or press [△▽] to select "Start 30-day free trial" or "I have a Rhapsody account", then press ENTER.

- 3**
 - ① When selecting "Start 30-day free trial" Select "Accept" and press ENTER.
 - ② When selecting "I have a Rhapsody account" Enter Username and Password.
- ※ "How to Enter Characters " for how to enter and change (page 11).



User name: _____
 Password: _____

NOTE

- The password should be no longer than 99 characters.
- The password may not contain underscores (_).



If the latest information is available, it is updated automatically. Do not turn off the power during updating. The Rhapsody Top Menu is displayed after the update is completed.

Enter a Character Search For the Track You Want to Listen to

- 1** Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select "Rhapsody" then press ENTER, or press [INTERNET RADIO].
- 2** Either turn <Multi Jog> or press [△▽] to select "Search", then press ENTER.
- 3** Either turn <Multi Jog> or press [△▽] to select the search item, then press ENTER.
 The search display appears.
 ※ You can search by artist name, album name or track name.
- 4** Enter the characters.
 ※ "How to Enter Characters " for how to enter (page 11).

Search From Rhapsody Latest Information

- 1** Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select "Rhapsody" then press ENTER, or press [INTERNET RADIO].
- 2** Either turn <Multi Jog> or press [△▽] to select "Rhapsody Music Guide", then press ENTER.
- 3** Either turn <Multi Jog> or press [△▽] to select the information for track selection, then press ENTER.
 After selecting, the information is displayed.
- 4** Either turn <Multi Jog> or press [△▽] to select the track, then press ENTER.

Search From the Rhapsody Internet Radio Station

- 1** Either turn <Multi Jog> or press **|◀◀ ▶▶|** after pressing <SOURCE> to select “Rhapsody” then press **ENTER**, or press **[INTERNET RADIO]**.
- 2** Either turn <Multi Jog> or press **[△▽]** to select “Rhapsody Channels”, then press **ENTER**.
- 3** Either turn <Multi Jog> or press **[△▽]** to select radio station, then press **ENTER**.

Registering Tracks in My Library

- 1** Press **ENTER** while the track you wish to register is playing.
“Exit” is displayed.
- 2** Either turn <Multi Jog> or press **[△▽]** to select “Add to my library”, then press **ENTER**.
The track is entered in the Library.

Listening to Tracks Registered In My Library

- 1** Either turn <Multi Jog> or press **|◀◀ ▶▶|** after pressing <SOURCE> to select “Rhapsody” then press **ENTER**, or press **[INTERNET RADIO]**.
- 2** Either turn <Multi Jog> or press **[△▽]** to select My Library, then press **ENTER**.
- 3** Either turn <Multi Jog> or press **[△▽]** to select the information or track, then press **ENTER**.
After selecting, the information is displayed.

Displaying the Search Menu During Play

- 1** Press **ENTER** during playback.
“Exit” is displayed.
- 2** Either turn <Multi Jog> or press **[△▽]** to select the search item, then press **ENTER**.

Listening to iPod



iPod® Playback

You can listen to music on an iPod. It is also possible to operate the iPod from the main unit or remote control unit.



iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

※ The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

NOTE

- DENON will accept no responsibility whatsoever for any loss of iPod data.
- Depending on the type of iPod and the software version, some functions may not operate.

Listening to Music

- 1** Load the iPod on the set.
- 2** Either turn <Multi Jog> or press **|◀◀ ▶▶|** after pressing <SOURCE> to select “iPod” then press **ENTER**, or press **[iPod]**.
- 3** Press **▶/II**.
Playback starts.
※ Also read the iPod’s operating instructions.
※ Press **ENTER** during play to change to Artist display or Album display.



The mode switches between iPod remote mode and iPod browse mode each time **[iPod]** is pressed.

Repeat and Random Playback

□ **REMOTE mode:**

Repeat playback
Control with the iPod main unit.

Random playback
Control with the iPod main unit.

□ **BROWSE mode:**

Repeat playback

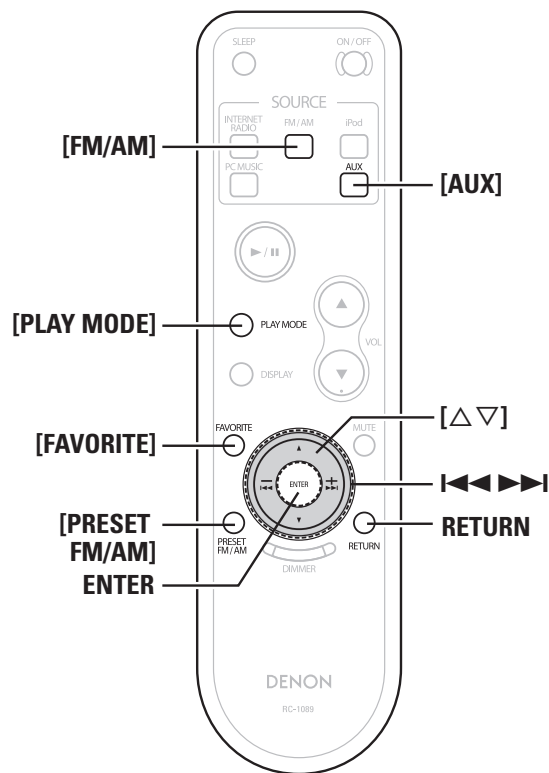
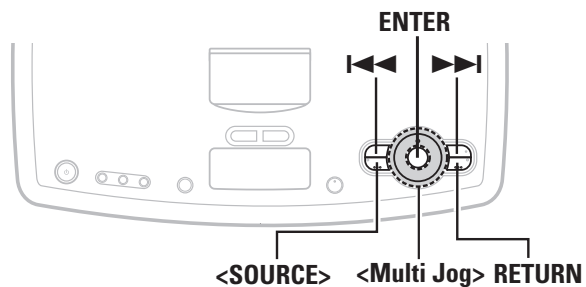
- ① Press **[PLAY MODE]**.
- ② Either turn <Multi Jog> or press **[△▽]** to select “Repeat”.
- ③ Press **ENTER** to switch the repeat mode between “Off”, “Repeat 1” and “Repeat All”.

Random playback

- ① Either turn <Multi Jog> or press **[△▽]** to select “Random”.
- ② Press **ENTER** to switch the random mode between “Off”, “Song” and “Album”.

Remote control and iPod Button Relations

Remote control unit buttons	iPod buttons	Operation on the S-32
▶/II	▶II	Play the track/Pause the track. ※ Play/Pause in remote mode
 ◀◀ ▶▶ 	 ◀◀ ▶▶ 	Play the track from the beginning/ Play the next track.
	◀◀ ▶▶	Fast-reverse the track/Fast-forward the track.
△, ▽	Click Wheel	Select an item.
ENTER	Select	Enter the selection or plays the track.
iPod	-	Switch between the browse mode and the remote mode.
PLAY MODE	-	Switch the repeat function. Switch the random function. (Browse mode only)
RETURN	MENU	Display the menu or return to the previous menu.



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

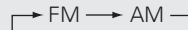
Listening to FM/AM



Tuning in Broadcast Stations

1 Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select “FM or AM” then press ENTER, or press [FM/AM].

※ The display changes as follows each time you press a remote control button.



2 Press |◀◀ or ▶▶| to select the reception frequency.

[To tune in automatically (Auto Tuning)]

- ① Press [PLAY MODE].
- ② Either turn <Multi Jog> or press [Δ ∇] to select “Mode”, then press ENTER.
- ③ Either turn <Multi Jog> or press [Δ ∇] to select “Auto”, then press ENTER.

Auto :

Tuning stops once a broadcast is found.

[To tune in manually (Manual Tuning)]

- ① Press [PLAY MODE].
- ② Either turn <Multi Jog> or press [Δ ∇] to select “Mode”, then press ENTER.
- ③ Either turn <Multi Jog> or press [Δ ∇] to select “Manual”, then press ENTER.

Automatically Presetting FM Stations (Auto preset)

- ① Either turn <Multi Jog> or press |◀◀ ▶▶| after pressing <SOURCE> to select “FM” then press ENTER.
- ② Press [PLAY MODE].
- ③ Either turn <Multi Jog> or press [Δ ∇] to select “Auto Preset”, then press ENTER.
- ④ Either turn <Multi Jog> or press [Δ ∇] to select “Start”, then press ENTER.

(Scanning starts and broadcast stations are automatically preset.)

※ Press RETURN to stop the auto preset operation before it is finished.

Presetting Radio Stations (Preset Memory)

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

1 Tune in the broadcast station you want to preset.

2 Press [PRESET FM/AM].

3 Either turn <Multi Jog> or press [Δ ∇] to select “Add to Preset”, then press ENTER.

Select a number that has not be registered automatically and display it.

4 Either turn <Multi Jog> or press [Δ ∇] to choose the number to be registered, then press ENTER.

NOTE

Preset stations are erased by overwriting them.



To preset other stations, repeat steps 1 to 4.

Naming Preset Broadcast Stations

Names can be registered for AM analog broadcast stations only. Up to 8 characters can be input.

- 1 Press **[PRESET FM/AM]** to select “Add to Preset”, then press **ENTER**.
- 2 Either turn **<Multi Jog>** or press **[△▽]** to choose the number to be registered.
- 3 Press and hold in **ENTER** for at least 2 seconds.
- 4 Either turn **<Multi Jog>** or press **[△▽]** to choose the letter to be inserted.
- 5 Use **|◀▶|** to choose the cursor position.
- 6 Once you are finished inputting, press **ENTER**.

Listening to Preset Stations

- 1 Press **[PRESET FM/AM]**.
- 2 Either turn **<Multi Jog>** or press **[△▽]** or **|◀▶|** to choose the station to be registered, then press **ENTER**.
 - ※ Press **[△▽]** to enable selection of the following preset numbers.
 → A1 ↔ A2 ↔ A3 ... ↔ A7 ↔ A8 ↔ B1 ... ↔ G7 ↔ G8 ←
 - Press **|◀▶|** to enable selection of the following preset numbers.
 → A1 ↔ B1 ↔ C1 ↔ D1 ↔ E1 ↔ F1 ↔ G1 ←

Listening to FM/AM Stations Registered Your Favorites

FM/AM stations can be stored in the favorites and played. “Favorite” (📖 page 19)

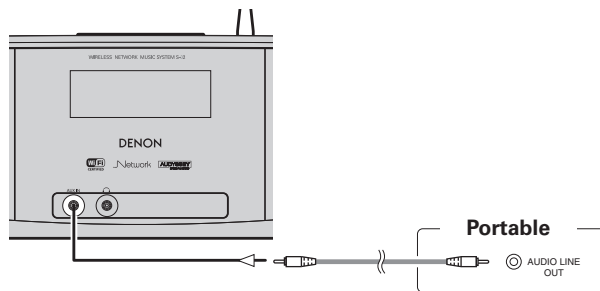
Listening to AUX



Playing a Portable Audio

Your portable audio player can be connected to the S-32’s AUX IN jack to play tracks on the portable audio player.

- 1 Either turn **<Multi Jog>** or press **|◀▶|** after pressing **<SOURCE>** to select “AUX” then press **ENTER**, or press **[AUX]**.
- 2 Play the portable audio player. The Portable Audio are output.
 - ※ Also read the portable audio player’s operating instructions.



Connect the S-32 and portable audio player using a separately sold mini-stereo audio cable.

Favorite



Your favorite Internet radio stations, PC Music and broadcast stations can be registered in your favorites so that you can tune them in easily. Up to 50 data can be registered.

Registering Radio Stations and PC Music as Your Favorites

- 1 Press **[FAVORITE]** while the radio station or PC music you want to register is playing.
- 2 Either turn **<Multi Jog>** or press **[△▽]** to select “Add to Favorite”, then press **ENTER**. “Complete!!” is displayed once registration is finished.



Press and hold in **[FAVORITE]** for at least 1 second to store in “Favorite”.

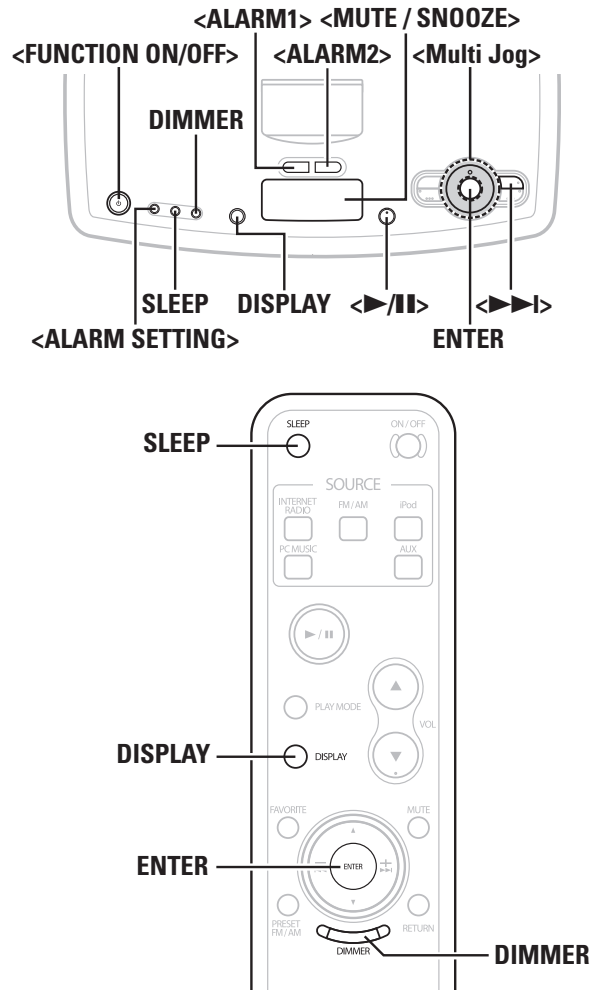
NOTE

If more than 50 stations are already registered, the oldest data is deleted.

Listening to Radio Stations and PC Music Registered in Your Favorites

- 1 Press **[FAVORITE]**.
- 2 Either turn **<Multi Jog>** or press **[△▽]** to choose the radio station or PC Music to be registered, then press **ENTER**.

Advanced Operation



Alarm Setting

Set the alarm time, source and volume.

- 1** Press **<ALARM SETTING>** to set the alarm.
- 2** [Alarm number selection]
Turn **<Multi Jog>** to select “ALARM1” or “ALARM2”, then press **ENTER**.
The time display flashes.
- 3** [Alarm time setting]
Select time with **<Multi Jog>**, then press **ENTER** to set.
※ Turn **<Multi Jog>** clockwise to increment the set value, and counter-clockwise to decrement it.
- 4** [Alarm source setting]
Select alarm source with **<Multi Jog>**, then press **ENTER** to set.
- 5** [Alarm volume level setting]
Select alarm volume level with **<Multi Jog>**, and press **ENTER** to set.
- 6** Press **<ALARM1>** or **<ALARM2>**, and set the alarm on.



- When the input source is “Internet Radio”, “PC Music”, or “iPod”, if music does not play when the alarm on time is reached, a Beep will sound.
- Alarms 1 and 2 operate separately.
- If the set is not operated for 60 minutes after alarm playback starts, playback stops and the power turns off (The Beep sound stops after 5 minutes).
- When you want alarm playback of an iPod recording, set iPod while pausing the track you want to play.

Pausing alarm playback (snooze function)

Press **<MUTE / SNOOZE>** during alarm playback.
Alarm playback resumes 5 minutes after it was stopped.

Stopping alarm playback

Either press **<ALARM1>** or **<ALARM2>** on the main unit to turn the alarm off, or press the main unit’s **<FUNCTION ON/OFF>**.

If there is a power failure

When connected to a network

When the power comes back on, the set automatically connects to an SNTP (Simple Network Time Protocol) server and the current time is adjusted automatically. Once the zone, daylight saving time and alarm time have been set, they are stored in the memory, so there is no need to set them again.

When unconnected to a network

When the power comes back on, the clock resumes from the time the power turned off. If the time is way off, turn the power on and reset the current time. If the alarm time has been set, it is stored in the memory, so there is no need to set it again.

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

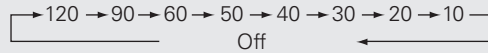
Buttons on the main unit and remote control unit

Setting the Sleep Timer

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

1 Set the current time (☞ page 8).

2 During playback, use **SLEEP** to select the time.



※ After about 5 seconds, the previous display reappears and the timer starts.

3 The power is set to the function off mode after the set amount of time.

Canceling the sleep timer

Press **SLEEP**, select "Off" from the sleep timer time display.

Checking the time remaining until the sleep timer starts

Press **SLEEP**.

Checking the current time

Press **DISPLAY** or hold down **DIMMER** for 2 seconds or more. The time is displayed.

Convenient Functions

Personal Memory Plus Function

This function sets the settings last selected for the individual input sources. When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.

Last Function Memory

This stores the settings as they were directly before the standby mode was set. When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Auto Power On

When the power is in the standby mode, the power turns on simply by pressing **<▶/II>**.

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.

1 Remove the power plug.

2 While pressing **<▶▶▶>** and **<MUTE / SNOOZE>** simultaneously, plug the power cord into a power outlet.

3 When "INITIALIZE" is displayed, release your fingers from the two buttons.



When "INITIALIZE" is not displayed in step 3, repeat operations from step 1.

Other Information

Audyssey Dynamic EQ.

Audyssey Dynamic EQ. is a technology that automatically corrects the tonal balance of an audio system when the volume is changed. It is based on psychoacoustic research that better matches to human perception than other loudness compensation that was used before. The tonal balance is adjusted continuously with variation in both program material and volume setting.

Audyssey BassXT

Audyssey BassXT is a solution to extend bass performance to lower frequencies without increasing cabinet size, driver size or weight. BassXT actively monitors the incoming low frequency signal and drives subwoofers to their maximum capability at all volumes, thereby producing deeper bass at all volume levels. This allows the subwoofer to play low bass content when it can and protects it only for the few times when it can't. It is not like simple bass boost or tone control as the system is fully customized for each speaker design by DSP processing and works in real time.

Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending.
Audyssey BassXT™ and Audyssey Dynamic EQ™ are trademarks of Audyssey Laboratories, Inc.

About Networks

Windows Media Player Ver.11

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 as well as files in such formats as WMA, DRM WMA, MP3 and WAV.

vTuner

This is a free online contents 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>

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- Some contents may not be compatible with other DLNA CERTIFIED™ products.

Windows Media DRM

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- The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- 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.

About Wireless LAN

Wi-Fi®

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

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.

Infrastructure Communications

“Infrastructure Communications” refers to networks using wireless LAN access points.

This function can be used to connect to the Internet or a wired LAN via a wireless LAN access point. Wireless LAN access points include wireless broadband routers.

Ad-hoc Communications

Signal transfer through wireless interconnection of computers is referred to as “ad hoc communications.” With such ad hoc communications there is no connection to the Internet. Ad hoc communications are suited for establishing simple temporary networks.

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.

WEP Key (Network Key)

This is key information used for encrypting data when conducting data transfer. On the S-32, 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.

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.

Passphrase

This refers to the code key used for WPA-PSK/WPA2-PSK authentication, a WPA authentication method.

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.

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.

Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?
2. Is the set being operated as described in the owner's manual?
3. Are the other components operating properly?

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

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

[General]

Symptom	Cause	Countermeasure	Page
Display not lit and sound not produced when power switch set to on.	<ul style="list-style-type: none"> Power cord not plugged in securely. 	<ul style="list-style-type: none"> Plug the power cord into the wall power outlet. 	7
Display lit but sound not produced.	<ul style="list-style-type: none"> Device you want to play and set input source do not match. Volume control set to minimum. MUTING is on. 	<ul style="list-style-type: none"> Select an appropriate input source. Turn volume up to suitable level. Switch off MUTING. 	12 12 12
Display is dim.	<ul style="list-style-type: none"> Dimmer function is on. 	<ul style="list-style-type: none"> Turn the dimmer function off by pressing the DIMMER button. 	13

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	<ul style="list-style-type: none"> Batteries are worn. 	<ul style="list-style-type: none"> Replace with new batteries. 	2
	<ul style="list-style-type: none"> You are operating outside of the specified range. 	<ul style="list-style-type: none"> Operate within the specified range. 	2
	<ul style="list-style-type: none"> Obstacle between main unit and remote control unit. 	<ul style="list-style-type: none"> Remove the obstacle. 	2
	<ul style="list-style-type: none"> The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment. 	<ul style="list-style-type: none"> Insert the batteries in the proper direction, following the polarity marks in the battery compartment. 	2
	<ul style="list-style-type: none"> The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). 	<ul style="list-style-type: none"> Move the set to a place in which the remote control sensor will not be exposed to strong light. 	2

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	<ul style="list-style-type: none"> Input source is not right. 	<ul style="list-style-type: none"> Select an appropriate input source. 	17
	<ul style="list-style-type: none"> iPod is not properly mounted in dock for ipod. 	<ul style="list-style-type: none"> Remount the iPod. 	5

[NET]

Symptom	Cause	Countermeasure	Page
The file names are not displayed properly (".;" etc.).	<ul style="list-style-type: none"> Characters that cannot be displayed are used. 	<ul style="list-style-type: none"> This is not a malfunction. On this set, characters that cannot be displayed are replaced with a ". (period)". 	-
Files stored on a computer cannot be played.	<ul style="list-style-type: none"> Files are stored in a non-compatible format. 	<ul style="list-style-type: none"> Record in a compatible format. 	13
	<ul style="list-style-type: none"> You are attempting to play a file that is copyright protected. 	<ul style="list-style-type: none"> Files that are copyright protected cannot be played on this set. 	13
Internet radio cannot be played.	<ul style="list-style-type: none"> Ethernet cable is not properly connected or network is disconnected. 	<ul style="list-style-type: none"> Check the connection status. 	6
	<ul style="list-style-type: none"> Program is being broadcast in non-compatible format. 	<ul style="list-style-type: none"> Only Internet radio programs in MP3 and WMA can be played on this set. 	-
	<ul style="list-style-type: none"> The computer's or router's firewall is activated. 	<ul style="list-style-type: none"> Check the computer's or router's firewall settings. 	-
	<ul style="list-style-type: none"> Radio station is not currently broadcasting. 	<ul style="list-style-type: none"> Choose a radio station that is currently broadcasting. 	14
	<ul style="list-style-type: none"> IP address is wrong. 	<ul style="list-style-type: none"> Check the set's IP address. 	9, 10
Server is not found, or it is not possible to connect to the server.	<ul style="list-style-type: none"> The computer's or router's firewall is activated. 	<ul style="list-style-type: none"> Check the computer's or router's firewall settings. 	-
	<ul style="list-style-type: none"> Computer's power is not turned on. 	<ul style="list-style-type: none"> Turn on the power. 	-
	<ul style="list-style-type: none"> Server is not running. 	<ul style="list-style-type: none"> Launch the server. 	-
	<ul style="list-style-type: none"> Set's IP address is wrong. 	<ul style="list-style-type: none"> Check the set's IP address. 	9, 10
Cannot connect to preset or favorite radio stations.	<ul style="list-style-type: none"> Radio station is not currently broadcasting. 	<ul style="list-style-type: none"> Wait a while before trying again. 	-
	<ul style="list-style-type: none"> Radio station is not currently in service. 	<ul style="list-style-type: none"> It is not possible to connect to radio stations that are no longer in service. 	-

Symptom	Cause	Countermeasure	Page
For some radio stations, "Server Full" or "Connection Down" is displayed and station cannot be connected to.	<ul style="list-style-type: none"> Station is congested or not currently broadcasting. 	<ul style="list-style-type: none"> Wait a while before trying again. 	-
Sound is broken during playback.	<ul style="list-style-type: none"> Network's signal transfer speed is slow or communications lines or radio station is congested. 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> File being played has a low bit rate. 	<ul style="list-style-type: none"> This is not a malfunction. 	-

[Tuner]

Symptom	Cause	Countermeasure	Page
Continuous noise is heard when receiving FM programs	<ul style="list-style-type: none"> Antenna cable is not properly connected. 	<ul style="list-style-type: none"> Connect the antenna cable properly. 	5
		<ul style="list-style-type: none"> Connect an outdoor antenna. 	5
Hissing or continuous noise is heard when receiving AM programs	<ul style="list-style-type: none"> This may be noise from a TV or interference from a radio station. 	<ul style="list-style-type: none"> Turn off the TV. 	-
		<ul style="list-style-type: none"> Change the position and direction of the AM loop antenna. 	-

[Wireless LAN]

Symptom	Cause	Countermeasure	Page
Cannot connect to network.	<ul style="list-style-type: none"> The settings of the SSID and network key (WEP) are incorrect. The reception is poor and the signals cannot be received. 	<ul style="list-style-type: none"> Match the network settings with the S-32's settings. 	6
		<ul style="list-style-type: none"> 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. 	-
Played sound is interrupted or sound cannot be played.	<ul style="list-style-type: none"> There are multiple networks and the usable channels overlap. 	<ul style="list-style-type: none"> Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable. 	-
		<ul style="list-style-type: none"> Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable. 	-

Specifications

Audio section

Power amplifier
Rated output: 10 W + 10 W (4 Ω/ohms, 1 kHz, T.H.D. 10 %)

Tuner section

Reception frequency range: FM: 87.5 MHz ~ 107.9 MHz AM: 520 kHz to 1710 kHz
Receiving sensitivity: FM: 1.5 μV/75 Ω/ohms AM: 20 μV
FM stereo separation: 35 dB (1 kHz)

Clock/Timer section

Clock method: Power line frequency synchronized method (± 30 seconds)

General

Power supply: AC 120 V, 60 Hz
Power consumption: 37 W
 0.4 W (standby)
Maximum external dimensions: 360 (W) x 126 (H) x 226 (D) mm (14-11/64" x 4-61/64" x 8-57/64")
 (including system cable)
Weight: 6 kg (13 lbs 3 oz)

Remote control unit (RC-1089)

Remote control method: IR pulse method
Power supply: R03/AAA Type (two batteries)
Maximum external dimensions: 48.5 (W) x 185 (H) x 19 (D) mm (1-29/32" x 7-9/32" x 47/64")
Weight: 105 g (Approx 3 oz) (including batteries)

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 / 2 / 1 Mbps (Automatic switching)
 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 : 11ch (DS-SS) (Of which 1 channel used)
 Conforming to IEEE 802.11g : 11ch (OFDM) (Of which 1 channel used)

* Wi-Fi® conformity indicates tested and proven interoperability by the "Wi-Fi Alliance", a group certifying interoperability among wireless LAN devices.

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