

SONY®

Wireless Network Audio System

NAS-Z200DiR/Z200iR

Operating Instructions



WARNING

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

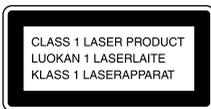
Excessive sound pressure from earphones and headphones can cause hearing loss.

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

CAUTION

The use of optical instruments with this product will increase eye hazard.



This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.

Wireless Network Audio System NAS-Z200DiR/Z200iR



This Wireless Network Audio System contained in this package is intended to be used in the following countries:

AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, NL, NO, PL, PT, RO, SE, SK

RF REMOTE CONTROL RMF-Z200



Hereby, Sony Corp., declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For details, please access the following URL: <http://www.compliance.sony.de/>

For customers who use this product in the following countries:

Wireless Network Audio System

NAS-Z200DiR/Z200iR RF REMOTE CONTROL RMF-Z200

Norway

Use of this radio equipment is not allowed in the geographical area within a radius of 20 km from the centre of Ny-Alesund, Svalbard in Norway.

Wireless Network Audio System

NAS-Z200DiR/Z200iR

France

The WLAN feature of this Wireless Network Audio System shall exclusively be used inside buildings. Any use of the WLAN feature of this Wireless Network Audio System outside of the buildings is prohibited on the French territory. Please make sure that the WLAN feature of this Wireless Network Audio System disabled before any use outside of the buildings. (ART Decision 2002-1009 as amended by ART Decision 03-908, relating to radio-frequencies use restrictions.)

Italy

Use of the RLAN network is governed:

- with respect to private use, by the Legislative Decree of 1.8.2003, no. 259 ("Code of Electronic Communications"). In particular Article 104 indicates when the prior obtainment of a general authorization is required and Art. 105 indicates when free use is permitted;
- with respect to the supply to the public of the RLAN access to telecom networks and services, by the Ministerial Decree 28.5.2003, as amended, and Art. 25 (general authorization for electronic communications networks and services) of the Code of electronic communications.



**Disposal of Old
Electrical &
Electronic
Equipment
(Applicable in
the European**

**Union and other European
countries with separate
collection systems)**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Applicable accessories: Remote control



**Disposal of
waste
batteries
(applicable in
the European**

**Union and other European
countries with separate
collection systems)**

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely.

Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Before operating this product

About copyright protection

The transferred/recorded music data cannot be used without the permission of the copyright holder except when used solely for personal enjoyment.

About the illustrations used in this manual

Illustrations and screens used in this manual may vary from the actual screens.

About services that can be used in conjunction with an Internet connection

Please note that Internet-based services are subject to change or termination without notice.

On the transfer and recording of files

- Before doing a transfer or recording, you should do a trial transfer or recording first, especially in the case of important material.
- Sony cannot provide compensation for any failure in transfer or recording caused by a malfunction in this unit.

Malfunctions that occur during the normal use of the unit will be repaired by Sony in accordance with the conditions defined in the limited warranty for this unit. However, Sony will not be liable for any consequences arising from a failure to transfer, record or play caused by a damaged or malfunctioning unit.

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* For the UK model only

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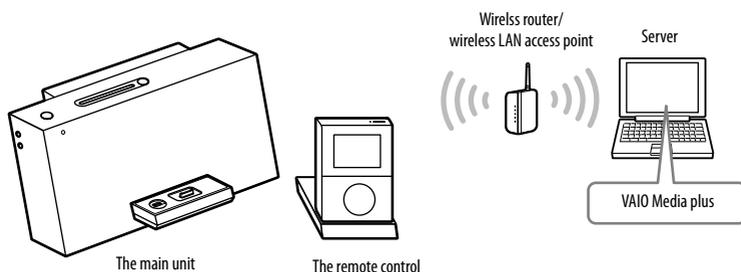
Features of this unit

Remote control with large LCD screen

The remote control's two-way communication capability and large LCD screen allows you to view the various information and operation status of the main unit close at hand, while controlling operations.

Listening to the audio data stored on a computer (Home Network function)

This unit supports the DLNA (Digital Living Network Alliance) standard. When connected to a DLNA-compliant computer (server) over a wireless LAN (Local Area Network) network, this unit can play back audio data stored on the computer through the speakers of the main unit (Home Network function). Installing the supplied VAIO Media plus software to your computer allows it to be used as a server.



Listening to the Internet radio (Internet Radio function)

With this function, you can listen to radio broadcasts offered on the Web via Live365 and SHOUTcast.

Listening to an iPod (iPod function)

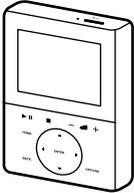
The unit comes with an iPod dock that allows you to play your iPod on this unit.

Transferring, recording, or erasing audio data (USB function)

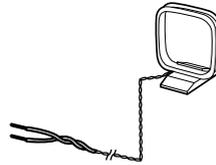
The unit comes with a  (USB) connector that allows you to transfer audio data from CDs, or record audio materials from FM/AM/DAB radio broadcasts or an externally connected component to the connected USB device. You can also erase or listen to the audio data stored on a connected USB device.

Checking the supplied accessories

- Remote control (1)



- AM loop antenna (1)



- Remote control charger (1)

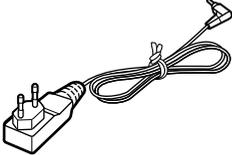


- FM wire antenna (1)



- AC power adaptor (1)

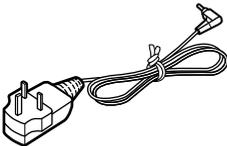
For models except the UK model



- DAB wire antenna (1) (for the UK model only)



For the UK model



- VAIO Media plus CD-ROM (1)

Do not play this disc on an audio CD player.



Operating Instructions (this manual)



This manual provides full explanations of the various settings, operations and the network connection procedure.

This manual also contains precautions for the safe use of the unit.

Setup Guide (1)

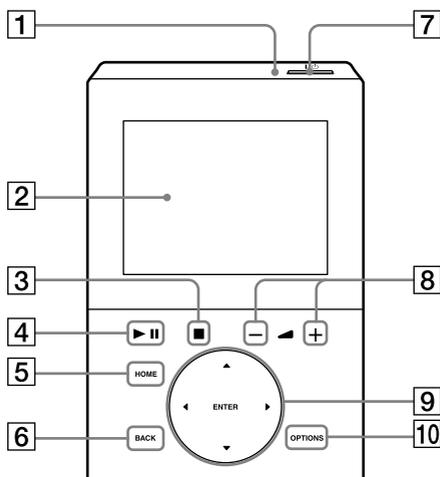
This manual explains how to connect the antennas and power cord, install the supplied software, and set up the network connection.

“Internet Radio service on NAS-Z200DiR/Z200iR” leaflet (1)

If you find any accessories missing or damaged, please contact your nearest Sony dealer.

Guide to parts and controls

Remote control



1 CHARGE indicator

Lights up while the remote control is being charged on the charger. The indicator turns off when charging has completed (page 15).

2 Display window

For details on the contents of the display, see page 12.

3 ■ (stop) button

Use to stop an operation (playback, recording, etc.).

4 ►|| (play/pause) button

Use to start or pause playback.

5 HOME button

Use to display the HOME menu (page 12).

6 BACK button

Use to go back to the previous display. Use to go to the next higher directory when viewing a list.

7 I/⏻ (power) button

Turns the power of the main unit and the remote control on or off.

8 +/- (volume +/-) buttons

Use to adjust the volume.

9 Operation buttons

● ▲ and ▼ buttons

Use to move the focus up or down and select an item in a list (menu list, artist list, track list, etc.).

● ◀ and ▶ buttons

Use to find a point in a track or the beginning of the previous/next track. Use to tune in the radio station.

Use to move the focus left or right.

Use to go to the previous or next page in a list when the Home Network, Internet Radio, or iPod function is selected.

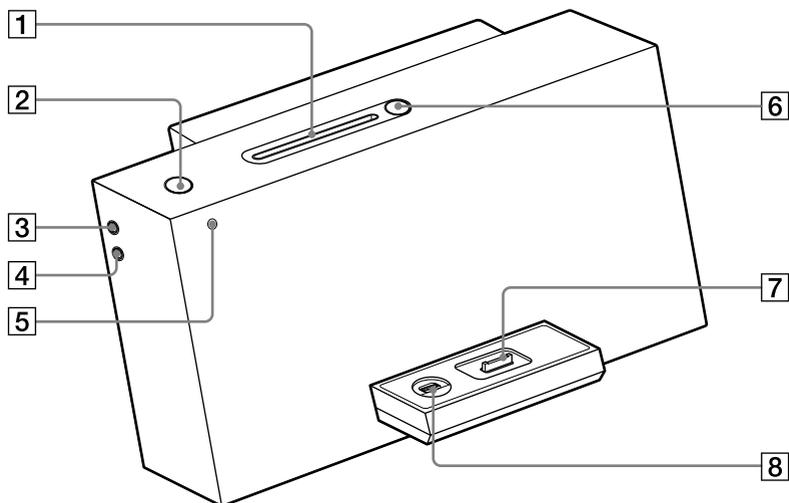
● ENTER button

Use to enter a selected item or setting.

10 OPTIONS button

Use to display the Options menu (page 12).

Main unit



1 CD slot

Insert a disc into this slot (page 25).

2 I/⏻ (power) button

Turns the power on or off.

3 PHONES jack

Use to connect headphones.

4 AUDIO IN jack

Use to connect the audio output jack of an external component (page 37).

5 ON/STANDBY indicator

The color indicates the unit's power status.

- Green: The unit is on.
- Red: The unit is in Power Save standby mode (page 49).
- Amber: The unit is in Quick Start-up standby mode (page 49).

6 ▲ (eject) button

Press this button to eject the disc (page 26).

7 iPod dock

Place an iPod into the iPod dock to listen to audio contents stored on the iPod (page 15, 30).

8 ⏻ (USB) connector

Use to connect a compatible USB device (page 39, 42).

Display window

This section introduces display windows that are frequently used.

■ Home menu

Appears when you press the HOME button. In this menu, you can select a function with the ▲/▼/◀/▶ buttons. Press the ENTER button to enter the selected function.



■ General display

The figure below is an example of the display when a function is selected.

Example: Display when the Home Network function is selected.



1 **Function name**

2 **Track name**

3 **Artist name**

4 **Album name**

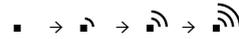
5 **Playback status**

6 **Displays the operations assigned to the remote control buttons. For example, pressing the ▶ button on the remote control finds the beginning of the next track (▶▶).**

7 **Clock**

8 **Wireless LAN signal strength indicator**

This antenna icon indicates the strength of the wireless LAN signal. More segments indicate a stronger signal.



This icon flashes when data from a server is being received and played back, as shown in the illustrations above.

9 **Battery indicator**

Shows the approximate remaining battery power.

🔋 (the battery is fully charged) → ... → 🔋

→ ... → 🔋 (the battery is drained)

When the built-in battery is drained, “Low battery. Please charge the remote control.” appears in the display. While the remote control is being charged, 🔋 appears.

10 **Play mode**

11 **Current track number/total track count**

■ Settings menu

Appears when you select [Settings] in the Home menu.

In this menu, you can enter the various system settings.



■ Options menu

Appears when you press the OPTIONS button during a function.

You can make optional settings (such as play mode, sound, etc.) for each function. Menu items will vary according to the selected function.



How to operate each menu

1 Enter the desired menu.

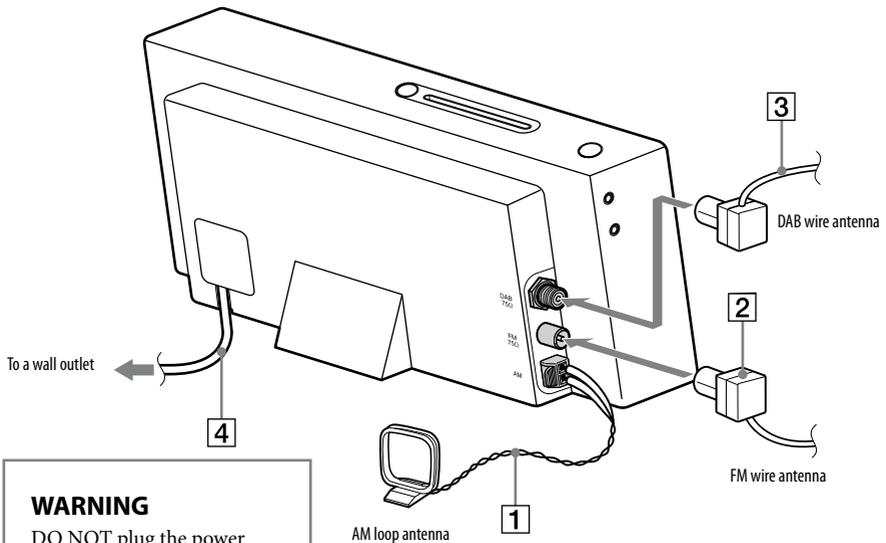
The unit enters the specified menu.

2 Press ▲/▼ to select the desired item.

3 Press ENTER.

Connecting the unit

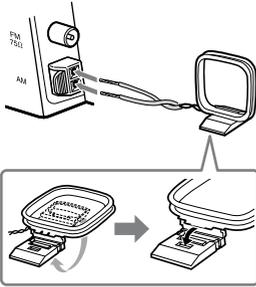
Connecting the antennas and power cord (main unit)



WARNING

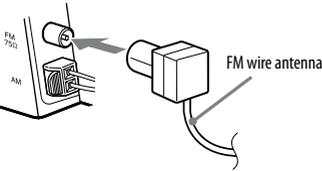
DO NOT plug the power cord to a wall outlet until all other connections have been made.

1 Connect the AM loop antenna (aerial).



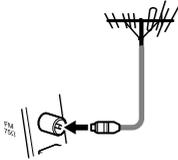
Locate the antenna away from the unit and other AV equipment. Adjust the location and angle for good AM reception.

2 Connect the FM wire antenna (aerial).



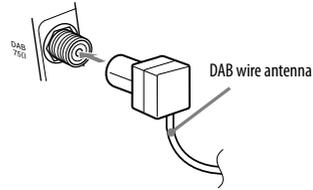
Adjust the location and angle for good FM reception.

If preferred, use a commercially available 75 Ω coaxial cable to connect the unit to an external antenna to improve reception.



Ensure the antenna is fully extended.

3 Connect the DAB wire antenna (aerial) (UK model only).



Use an external DAB antenna (aerial) for a more robust DAB signal. It is recommended you only use the supplied DAB wire antenna for areas of strong DAB reception or as a temporary measure until you install an optional external antenna.

Use a 75 Ω coaxial cable with male F type connector to connect the unit to an external antenna.

Ensure the antenna is fully extended.

4 Connect the power cord to a wall outlet.

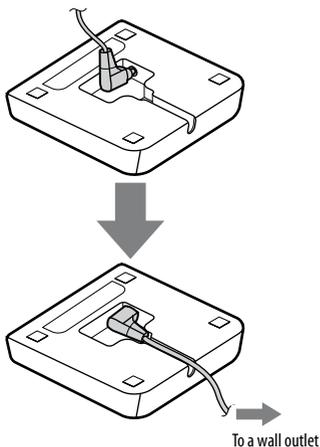
Note

Keep the FM and AM antennas away from the power cord, remote control, remote control charger, AC power adaptor and USB cable to avoid picking up noise.

Connecting the AC power adaptor (remote control)

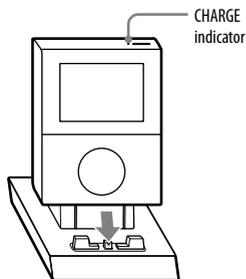
The remote control is not fully charged when you first unpack it after purchase. Make sure to fully charge the remote control before using it.

- 1 Connect one end of the AC power adaptor to the DC IN jack of the charger and the other end to a wall outlet.



- 2 Place the remote control on the charger.

When you place the remote control on the charger, the CHARGE indicator lights up and charging starts. The CHARGE indicator turns off when the remote control is fully charged.



About automatic demonstration

When you charge the remote control, demonstration images will appear on the display 60 seconds after charging starts. (By default, the display on the remote control lights up and the demonstration images are displayed when the unit is turned off.)

To cancel the demonstration, see “Cancelling automatic demonstration” (page 24).

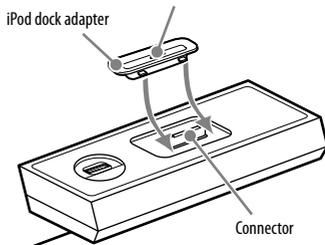
Notes

- Do not try to change the built-in battery by yourself. If you experience a problem with the built-in battery, contact your nearest Sony dealer.
- Battery installed devices should not be exposed to excessive heat such as direct sunlight, fire, or the like.

Using an iPod

Insert an iPod dock adapter into the iPod dock before use. The iPod dock adapter is not supplied with the unit. Use the iPod dock adapter supplied with your iPod. For details on the iPod dock adapter, refer to the operating manual of your iPod.

To remove the iPod dock adapter, pull it up with your fingernail or a flat object using the slot inside the adapter.



Preparing a computer to use as a server (VAIO Media plus)

A server is a device which delivers content to a DLNA-compatible playback device on a home network. By installing the supplied VAIO Media plus software (which has a DLNA compliant server function) on your computer, you can enjoy audio data stored on the computer with this unit via your wireless network.

For details on the operation of the VAIO Media plus software, refer to the “Help” of the VAIO Media plus software.

System requirements

To use the supplied VAIO Media plus software, the following system specifications are required.

Operating System

- Windows XP Home Edition/Professional/Media Center Edition 2004/Media Center Edition 2005 (SP3, 32 bit)
- Windows Vista Home Basic/Home Premium/Business/Ultimate (SP1, 32 bit/64 bit)

	Windows XP	Windows Vista
Computer	IBM PC/AT compatible	
CPU	Intel Celeron M processor 1.40 GHz or higher (Intel Core 2 Duo 1.8 GHz or higher is recommended)	Intel Core Duo 1.33 GHz or higher (Intel Core 2 Duo 2.26 GHz or higher is recommended)
Memory	512 MB or more (1 GB or more is recommended)	1 GB or more (2 GB or more is recommended)

	Windows XP	Windows Vista
Graphic chip	Equipped with graphic chip by Intel, NVIDIA or ATI. DirectX 9.0c compatible video card (DirectX 9.0c/128 MB compatible video card and the latest driver are recommended)	
Display	800 × 600 or higher resolution	
HDD	500 MB or more is recommended	
Network	100Base-TX or higher	
Sound card	Direct Sound compatible sound card	

Note

Sony does not guarantee trouble-free operation on all computers that satisfy the system requirements. Other software operating on background may affect the operation of this software.

Installing the VAIO Media plus software on your computer

To use VAIO Media plus as server software, install the VAIO Media plus software provided on the supplied CD-ROM on your computer.

- 1** Turn on your computer and login with administrator rights.
- 2** Insert the supplied VAIO Media plus CD-ROM into the CD-ROM drive of your computer.

The installation launcher starts automatically, then a Software Setup window appears on the screen.

If the installation launcher does not start automatically, double-click “SetupLauncher.exe” on the disc.
- 3** Install the VAIO Media plus software following the instructions given in the message on the screen.

Starting up the VAIO Media plus software

On the computer, go to the [Start] menu, and select [All programs] – [VAIO Media plus] – [VAIO Media plus] to start up the software.

The introduction window appears the first time you start the VAIO Media plus software. When it appears, follow the instructions that appear on the screen to set up the initial settings. The Windows Firewall, Share name and Share status settings are automatically configured.

Note on firewall software

If the firewall function in commercially available software is enabled on your computer, VAIO Media plus may not work correctly even after the initial setup is completed. In case this happens, refer to the “Help” of the VAIO Media plus software.

Connecting the unit to your home network (network setting)

After you have installed VAIO Media plus on your computer, carry out the network settings to connect the unit to your computer.

If you have any trouble with the network connections, consult the “Troubleshooting” section (page 54).

Setting up the unit to connect to your home network

Note

You may encounter setup difficulties if the unit and the wireless router/wireless LAN access point are located too far from each other. If you do, place the devices closer to each other.

During this setup procedure, you will need some additional information. Make sure you know the following:

- the identification name broadcast by your wireless network (SSID)
- if your wireless home network is secured by encryption, the network key (security key)*¹ for your network.

*¹ E.g., password for your network, WEP key, WPA key, or WPA2 key

This information should be available from your wireless router/wireless LAN access point operating manual, from the person who set up your wireless network, or the from the information provided by your internet service provider.

For details on the network name (SSID), network key (security key), WEP, WPA and WPA2, see pages 78 and 79.

1 Select [Settings] from the Home menu.

Settings menu appears.

2 Select [Network Setting].

“Switch to Home Network, when the setting is completed.” appears in the display. Select [OK] to continue the operation.

3 Select [Connection Setting] – [Manual].

4 When “Change the wireless LAN setting values?” appears, select [Yes].

The unit automatically starts searching for all available wireless networks (SSID).

5 Select the network name (SSID) from the list.

The display changes to the Network key (security key) input display.

The Network key (security key) input display appears only when your home network is secured by encryption. If it does not appear, skip step 6 and go to step 7.

Tip

If the name of the network (SSID) that you want to connect to does not appear in the display:

Select [Direct Input] in the list of networks and enter the network name (SSID) manually. For details, see “When the desired network name (SSID) does not appear in the list of networks” (page 19).

6 Enter the Network key (security key), and then press and hold ENTER.

Enter the exact sequence of letters and numbers that make up your key. Hexadecimal number and ASCII codes can be entered. For details on how to input characters, see “How to enter text” (this page).

When the network key (security key) has already been entered, it appears as “*****”. If you want to change the network key (security key), press BACK to erase the current key, and then set the new one.

7 Select [Full automatic] from the Address Setting display.

Tip

If you select [Custom] to set the Address Setting manually:

See “When you select [Custom] for the Address Setting” (page 20).

8 When “Switch network settings to manual.” appears, select [OK].

The unit changes to the Home Network function and the server selection display appears. For details on playing audio data stored on a computer, see “Playing audio data stored on a computer” (page 34). For details on listening to the Internet radio, see “Listening to the Internet radio” (page 33).

How to enter text

Use the following buttons if you are required to enter characters or a text string during the setup.

Buttons	Descriptions
◀/▶	Selects the desired character type. Each time you press ◀/▶, the character type changes in the following order sequentially. Numbers (0 to 9) → Uppercase alphabet (A to Z) → Lowercase alphabet (a to z) → Symbols (!, “, #, \$, ...) → Numbers (0 to 9) ...
▲/▼	Selects the character. Press and hold ▲/▼ until the desired character appears.
ENTER	Enters the character and moves the insertion point over one space (a “0” appear by default). Pressing and holding this button enters the text string and completes the text entering.
BACK	Cancels the input of a character.

When the desired network name (SSID) does not appear in the list of networks

If you do not find the desired network name (SSID) in the list of networks (step 5 in “Setting up the unit to connect to your home network” (page 18)), do the following operation.

- 1 Select [Direct Input] in step 5 of “Setting up the unit to connect to your home network” on page 18.
- 2 Enter the Network name (SSID), and then press and hold ENTER.
- 3 Select the Security setting. Select [WEP64/128bit], [WPA/WPA2], or [None].
- 4 Do steps 6 to 8 of “Setting up the unit to connect to your home network” on this page.

When you select [Custom] for the Address Setting

If you select [Custom] to input the address setting manually (step 7 in the “Setting up the unit to connect to your home network” on page 19), do the following operation.

1 Select [Custom] in step 7 of “Setting up the unit to connect to your home network” on page 19.

2 Set the IP Address Setting.

Select [Auto (DHCP)] or [Manual].

Auto (DHCP)	The unit automatically sets the IP address, subnet mask, and default gateway.
Manual	Enter the values for the IP address and subnet mask, and then press and hold ENTER. When the default gateway setting display appears, enter the values for the default gateway, and then press ENTER.

3 Set the DNS server setting.

Select [Auto] or [Manual].

Auto	The unit automatically sets the DNS server.
Manual	The DNS server setting window appears. Specify DNS1 (primary DNS server) and DNS2 (secondary DNS server), and then press ENTER.

4 Do step 8 of “Setting up the unit to connect to your home network” on page 19.

Setting up the unit to connect to your home network through an AOSS connection

If you are using an AOSS-compatible wireless router, wireless LAN access point, or “GIGA JUKE” wireless station, you can set up a wireless network through an AOSS connection.

1 Select [Settings] from the Home menu.

Settings menu appears.

2 Select [Network Setting].

“Switch to Home Network, when the setting is completed.” appears in the display. Select [OK] to continue the operation.

3 Select [Connection Setting] – [AOSS].

Follow the instructions that appear in the display. When you are instructed to press the AOSS button, press and hold the AOSS button on the wireless router/wireless LAN access point until the AOSS or the SECURITY indicator flashes. The wireless router/wireless LAN access point will then be automatically set.

4 When “AOSS setting with wireless station/access point is completed.” appears, select [OK].

The unit changes to the Home Network function and the server selection display appears. For details on playing audio data stored on a computer, see “Playing audio data stored on a computer” (page 34). For details on listening to the Internet radio, see “Listening to the Internet radio” (page 33).

Note

You may encounter setup difficulties if the unit and the wireless router, wireless LAN access point, or “GIGA JUKE” wireless station are located too far from each other. If you do, place the devices closer to each other.

Setting up the unit to connect to your home network through the Instant (S-IWS) connection

If you have the Sony “GIGA JUKE” Music Server and are using Instant (S-IWS) connection to connect to your home network, you can use Instant (S-IWS) connection to set up the wireless network.

- 1 Select [Settings] from the Home menu.
Settings menu appears.
- 2 Select [Network Setting].
“Switch to Home Network, when the setting is completed.” appears in the display. Select [OK] to continue the operation.
- 3 Select [Connection Setting] – [Instant (S-IWS)].
Follow the instructions that appear in the display.
- 4 When “Instant (S-IWS) setting with wireless station is completed.” appears, select [OK].
The unit changes to the Home Network function and the server selection display appears. For details on playing audio data stored on a computer, see “Playing audio data stored on a computer” (page 34). For details on listening to the Internet radio, see “Listening to the Internet radio” (page 33).

Note

Instant (S-IWS) connection is recommended when the unit is only connected to your “GIGA JUKE” Music Server as a server. When connecting the unit to a computer, the manual connection or the AOSS connection is recommended as it can obtain a security level higher than that of the Instant (S-IWS) connection. Use the manual connection or the AOSS connection if higher security level is a priority.

Setting up a proxy server manually

You may have to set up a proxy server, depending on the specifications of your Internet provider or the network settings.

- 1 Select [Settings] from the Home menu.
Settings menu appears.
- 2 Select [Network Setting].
“Switch to Home Network, when the setting is completed.” appears in the display. Select [OK] to continue the operation.
- 3 Select [Proxy Setting] – [On].
Specify the IP address and port number, and then press and hold ENTER.
- 4 When “Switch proxy settings.” appears, select [OK].
The unit changes to the Home Network function and the server selection display appears. For details on playing audio data stored on a computer, see “Playing audio data stored on a computer” (page 34). For details on listening to the Internet radio, see “Listening to the Internet radio” (page 33).

Selecting the display language

English, French, German, Italian or Spanish may be selected for the display language.

-
- 1 Select [Settings] from the Home menu.

Settings menu appears.

-
- 2 Select [Remote Control] – [Language].

The display for selecting the language appears.

-
- 3 Select the desired language, and then press ENTER.

Display	Selectable language
◆ English	English
Français	French
Deutsch	German
Italiano	Italian
Español	Spanish

(◆: Factory setting)

The display appears in the selected language.

Setting the clock

The time must be correctly set on the clock for the correct operation of some features. Do the procedure below to set the clock.

Note

The unit is factory set to start playing demonstration automatically if no operation is performed for about 60 seconds. To disable the automatic demonstration, set the clock.

- 1** Select [Settings] from the Home menu.
Settings menu appears.
- 2** Select [Common Setting] – [Clock Setting].
When the clock has not been set, “0:00” appears. When the clock has been set, current time appears. A 24-hour clock is used for the time display.
- 3** Select [Change] .
- 4** Press ▲/▼ to set the hour and press ENTER.
- 5** Press ▲/▼ to set the minute and press ENTER.
- 6** Select [OK].

To cancel the procedure

Select [Cancel] in step 6, or press HOME.

To go back to the previous display

Press BACK.

Cancelling automatic demonstration

The display on the remote control is factory set to automatically light up and playback demonstration images when the power is turned off.



To disable automatic demonstration, do the following.

- 1** Select [Settings] from the Home menu.
Settings menu appears.

- 2** Select [Common Setting] – [Demonstration].

- 3** Select [Off].
To start the automatic demonstration, select [On]*1.
*1 Factory setting

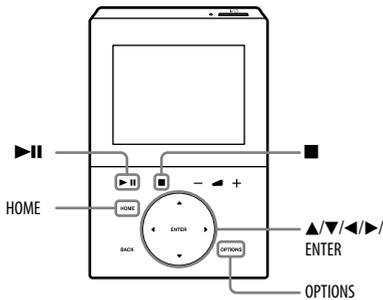
About automatic demonstration

If you set the clock, the demonstration setting is automatically set to [Off] and it does not start.

When the demonstration display setting is set to [On], the demonstration will start playing automatically after 60 seconds of inactivity (when the power is turned off and the remote control is placed on the charger).

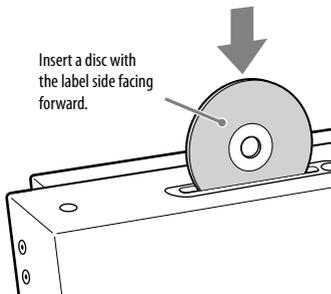
Playing a CD

This unit can play audio CDs and CD-R/RW discs recorded with MP3 audio tracks. See page 66 for details on playable discs.



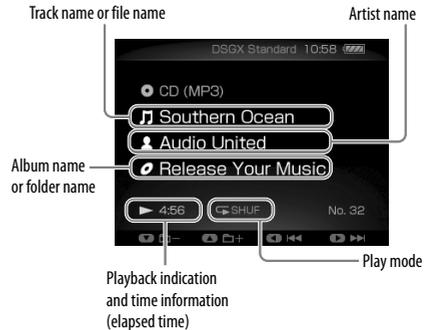
1 Select the CD function from the Home menu.

2 Insert a disc in the disc slot.



When you insert a disc, playback starts automatically.

When an MP3 disc is inserted, ID3 tag information will be displayed.



Notes

- When you turn on the unit, the disc is not pulled into the disc slot until “No Disc” appears in the display. Do not attempt to push in the disc until “No Disc” appears.
- Do not insert a disc with non-standard shapes (e.g., heart, square, star). Otherwise the disc may fall into the unit and cause irreparable damage.
- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- When pressing ▲ on the unit and then reinserting the disc that appears in the disc slot, do not simply push in the disc. Remove the disc from the disc slot and then reinsert it.
- Do not turn off the unit with a disc halfway inserted in the disc slot. Doing so may cause the disc to fall.
- When you eject a disc, handle the disc by its edge. Do not touch the surface.
- Do not push a disc into the disc slot when the unit is off. Doing so may cause the unit to malfunction.
- Do not insert an 8 cm disc with an adaptor. Doing so may cause the unit to malfunction.
- Do not place any object on the disc slot. Doing so may cause the unit to produce noise or malfunction.

Other operations

To	Do the following:
Stop playback	Press ■.
Pause playback	Press ► . Press ► again to resume playback.
Find a point in a track/file	Press and hold ◀/▶ during playback, and release it at the desired point.
Select a track/file	Press ◀/▶ to select a track/file.
Select a folder (MP3 disc only)	Press ▲/▼ to select a folder.
Eject the disc	Press ▲ on the main unit.

Notes on inserting/ejecting a disc

- If you insert or eject a disc, the unit will automatically change to the CD function, even when other function was selected.
- If you insert a disc while the unit is recording (an FM/AM/DAB broadcast or sound from an external component (page 43)), the unit will stop recording and change to the CD function.
- You cannot eject a disc in the following cases.
 - When audio data is being transferred or recorded to the USB device.
 - When erasing audio files or folders on the USB device.

To change the play mode

You can change the play mode while playback is stopped.

Press OPTIONS to enter the Options menu, select [Play Mode], and then select the desired play mode.

Play mode	Description
◆ Continue	The unit plays all tracks/files in the inserted disc in sequential order.
Folder Continue*1	The unit plays the files in the selected folder in sequential order.
Shuffle	The unit plays all tracks/files in the inserted disc in random order.
Folder Shuffle*1	The unit plays the files in the selected folder in random order.

(◆: Factory setting)

*1 When playing a CD-DA (audio) disc, “Folder Continue” operates the same way as normal “Continue” play, and “Folder Shuffle” operates the same way as normal “Shuffle” play.

Note on shuffle play mode

When you turn off the unit, the selected shuffle play mode (“Shuffle” or “Folder Shuffle”) is cleared and the play mode returns to normal play.

To change the repeat mode

Repeated playback can be specified for the selected play mode.

Press OPTIONS to enter the Options menu, select [Repeat], and then select the desired repeat mode.

Repeat mode	Description
◆ Off	Repeat play is off.
All	The unit plays all tracks/files repeatedly in the selected play mode.
1 Track	The unit plays the selected track/file repeatedly.

(◆: Factory setting)

Notes on playing MP3 disc

- Do not save other types of files or unnecessary folders on a disc that has MP3 files.
- Folders that have no MP3 files are skipped.
- MP3 files are played back in the order that they are recorded onto the disc.
- The unit can only play MP3 files that have a file extension of “.mp3”.
- If there are files on the disc that have the “.mp3” file extension, but that are not MP3 files, the unit may produce noise which could damage the speaker system or may malfunction.
- The maximum number of:
 - MP3 folders is 999 (including the root folder).
 - MP3 files that can be contained in a folder is 150.
 - MP3 files that can be contained on a single disc is 999.
 - folder levels (the tree structure of files) is 8.
- Compatibility with all MP3 encoding/writing software, recording device, and recording media cannot be guaranteed. Incompatible MP3 discs may produce noise or interrupted audio or may not play at all.

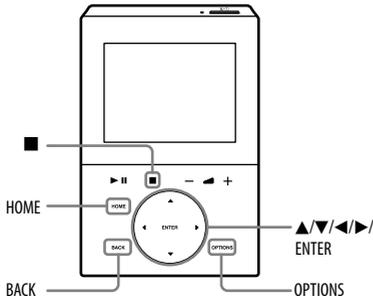
Notes on playing multisession discs

- This unit can play Multi Session CD when an MP3 file is contained in the first session. Any subsequent MP3 files recorded in later session can also be played back.
- If the disc begins with a CD-DA (or MP3) session, it is recognized as a CD-DA (or MP3) disc, and other sessions are not played back.
- A disc with a mixed CD format is recognized as a CD-DA (audio) disc.

Listening to the radio

You can tune in FM/AM/DAB* radio stations either manually or automatically. Pre-setting stations or services in advance allows you to recall them by number.

DAB* can be received with the UK model only.



Selecting an FM/AM/DAB* radio station

- 1 Select the Tuner function from the Home menu.
- 2 Select [FM], [AM], or [DAB]*.

3 Perform tuning.

For automatic tuning:

Press OPTIONS to enter the Options menu, select [Tuner Setting] – [Tuning Mode] – [Auto]*1, press BACK twice, and then press ◀/▶.

Scanning stops automatically when a station is tuned in and then “Tuned” and “Stereo” (for stereo program only) appear in the display. If “Tuned” does not appear and the scanning does not stop while tuning in an FM or AM station, press ■ to stop scanning, then perform manual tuning.

*1 Factory setting

For manual tuning (FM/AM reception only):

Press OPTIONS to enter the Options menu, select [Tuner Setting] – [Tuning Mode] – [Manual], press BACK twice, and then press ◀/▶ repeatedly until the frequency of the desired radio station appears.

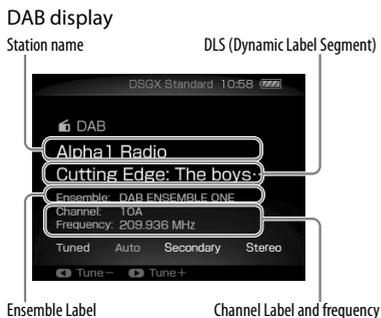
FM/AM display
Frequency



Station name*2

*2 If the FM station provides RDS (Radio Data System) service, information (e.g., station name) provided by RDS will be displayed. The name that was entered for a preset FM/AM station is displayed while that station is being received (when [Preset] is selected for the [Tuning Mode] setting).

* For the UK model only



To reduce static noise during reception of a weak FM stereo station

If you experience noise in an FM stereo broadcast, press **OPTIONS** to enter the Options menu and select **[Tuner Setting] – [FM Mode] – [Monaural]**. The reception will no longer be stereo, but it will be clearer. To change back to stereo reception, do the same procedure and select **[Auto]**.

Tip

For better broadcast reception, try changing the direction or location of the antenna. For example, position the antenna near or outside a window. If the reception does not improve, it is recommended to connect an optional external antenna. Keep the FM and AM antennas away from the power cord, remote control, remote control charger, AC power adaptor and USB cable to avoid picking up noise.

Notes

- When tuning in a DAB station, it may take a few seconds before you hear any sound.
- When tuning in a DAB station, primary service is automatically received when secondary service ends.

To perform DAB Automatic Scan*

- 1 Select the Tuner function from the Home menu.
- 2 Select **[DAB]**.
- 3 Press **Options** to enter the Options menu.
- 4 Select **[Tuner Setting] – [Auto Scan]**.
- 5 When “Starting Automatic Scan.” appears, select **[OK]**.
DAB Automatic Scan starts.
When scanning is completed, a list of available DAB stations is created.

Notes

- All preset stations that have been stored in the unit are cleared when you perform a DAB Automatic Scan or when scanning is cancelled.
- Before unplugging the DAB wire antenna, make sure the unit is turned off to preserve your own DAB settings.

* For the UK model only

Presetting FM/AM/DAB* radio stations

By presetting FM, AM, or DAB* stations, you can easily reselect them by using the corresponding preset number. You can preset up to 20 FM or DAB stations and up to 10 AM stations.

- 1 Tune in the desired station (see "Selecting an FM/AM/DAB* radio station" on page 27).
- 2 Select the preset memory.
Press **OPTIONS** to enter the Options menu, select [Tuner Setting] – [Preset Memory].
- 3 Press **▲/▼** to select a preset number, and then press **ENTER**.
If another station is already assigned to the selected preset number, the station is replaced by the new station.
- 4 Enter the name of the station, if necessary.
 - When selecting an FM station:**
If the selected FM station provides RDS, the station name appears automatically. If the FM station does not provide RDS or if you want to change the name manually, you can enter the name of the station.
 - When selecting an AM station:**
The station name does not appear. You can enter the name of the station.
 - When selecting a DAB station:**
The station name input display does not appear. Skip steps 4 and 5, and go to step 6.

For details on entering text, see "How to enter text" (page 19).

- 5 Press and hold **ENTER** to store the station.
If the name of the station is 12 characters in length, the station can be stored by pressing **ENTER**.
- 6 Repeat steps 1 through 5 to preset other stations.

Tip

Secondary DAB* services can also be preset.

To listen to the preset FM/AM/DAB* station

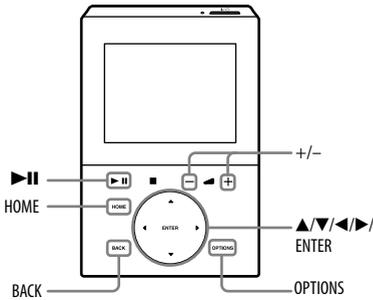
- 1 Press **OPTIONS** to enter the Options menu, and select [Tuner Setting] – [Tuning Mode] – [Preset], and then press **BACK** twice.
- 2 Press **◀/▶** to select the preset station.

* For the UK model only

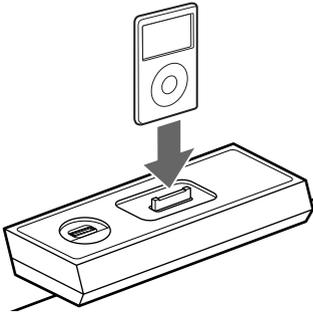
Playing an iPod

You can operate your iPod with the remote control and listen to music and other audio content stored on your iPod.

See “iPod models that are compatible with this unit” (page 69) for iPod models that can be connected to this unit.



1 Place the iPod on the iPod dock.



2 Select the iPod function from the Home menu.

3 Select a track browsing iPod menus on the remote control display.

Example: Selecting a track from [Playlists]

- ① Press ▲/▼ to select [Playlists] from the iPod menu, and then press ENTER.
- ② Press ▲/▼ to select the desired playlist, and then ENTER.
Tracks in the selected playlist appear.
- ③ Press ▲/▼ to select the desired track, and then ENTER.
The selected track starts playback.



You can also start playback without selecting an item from any of the iPod menus. Press ▶|| to start playback while playback is stopped and an iPod menu is displayed. The track that was last played will start to play again.

Other operations

To	Do the following:
Pause playback	Press ► . Press ► again to resume playback.
Scroll up/down the iPod menus	Press ▲/▼. You can scroll up or down the iPod menus much like the Click Wheel operations of the iPod or the drag up or down operations of the iPod touch.
Select a page	Press ◀/▶ while an iPod menu is displayed.
Select a track or chapter of audiobook/podcast	Press ◀/▶ while the playback display appears.*1
Choose the selected item	Press ENTER. You can choose the selected item much like the center button on the iPod or the touch operation of the iPod touch.
Find a point in a track or chapter of audiobook/podcast	Press and hold ◀/▶ while the playback display appears, and release it at the desired point.*1
Return to the previous menu or select a menu	Press BACK. You can return to the previous menu or select a menu much like the Menu button on the iPod or the touch operation of the iPod touch. To go back to the playback display, press BACK repeatedly until reaching the highest menu, press ▲/▼ to select [To playback display], and then press ENTER.
Adjust the volume	Press +/-.
Play the track that was last played	Press ► while playback is stopped and an iPod menu is displayed.*2*3

*1 You cannot perform this operation when an iPod menu is displayed, even though the playback sound is being output in the background.

*2 If shuffle play or shuffle repeat play is selected, or the iPod database has been updated, you may not be able to play back the last track played.

*3 Information about the last track played is erased when you disconnect the power cord of the main unit or use a different iPod.

Note

The buttons and controls on the iPod are disabled when the iPod is placed on the iPod dock on the main unit and the unit is turned on.

To use the unit as a battery charger

You can use the unit as a battery charger for the iPod when the unit is on. The charging begins when the iPod is placed on the iPod dock. The charging status appears in the iPod display. For details, see the operating manual of your iPod.

To stop charging the iPod

Remove the iPod.

To change the play mode

Press OPTIONS to enter the Options menu, select [Play Mode], and then select the desired play mode.

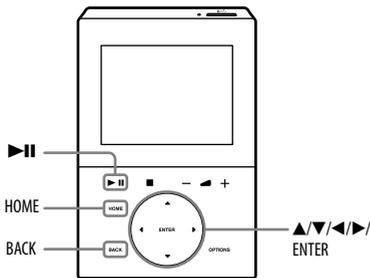
Play mode	Description
Continue	The unit plays all tracks in the iPod in sequential order.
All Repeat	The unit plays all tracks for the selected item (album, artist, etc.) repeatedly.
1 Repeat	The unit plays the currently selected track repeatedly.
Shuffle	The unit plays the tracks for the selected item (album, artist, etc.) in random order.
Shuffle Repeat	The unit plays the tracks for the selected item (album, artist, etc.) in random order repeatedly.

Notes

- If no operation has been performed for 60 seconds while an iPod menu is displayed and the playback sound is being output in the background, any menu display will be replaced by the playback display.
- When placing or removing the iPod, handle the iPod in the same angle as that of the iPod connector on the unit and do not twist or sway the iPod to prevent connector damage.
- Do not carry the unit with an iPod set on the connector. Doing so may cause a malfunction.
- When placing or removing the iPod, brace the unit with one hand and take care not to press the controls of the iPod by mistake.
- To change the volume level, use the +/- button on the remote control. The volume level does not change when adjusted on the iPod.
- The iPod dock on the unit is designed for an iPod only. You cannot connect any other portable audio players.
- To use an iPod, refer to the operating manual of your iPod.
- Sony cannot accept responsibility in the event that data recorded on the iPod is lost or damaged when using an iPod with this unit.

Listening to the Internet radio

You can listen to Internet radio broadcasts offered on the Web by Live365 and SHOUTcast on the unit. To listen to the Internet radio, your wireless router/wireless LAN access point has to be connected to the Internet. For details on connecting to the Internet, refer to the supplied leaflet "Setup Guide", "Connecting the unit to your home network (network setting)" (page 18) in this manual and to the operating manual of the wireless router/wireless LAN access point. For details, refer to the supplied leaflet "Internet Radio service on NAS-Z200DiR/Z200iR".



- 1 Select the Internet Radio function from the Home menu.
- 2 Select [Live365] or [SHOUTcast].
- 3 If you select [Live365] in step 2, press ▲/▼ to select the desired station, and then press ENTER. If you selected [SHOUTcast] in step 2, press ▲/▼ and ENTER to narrow down the choices to the desired genre. Afterwards, select the desired station, and then press ENTER. The unit starts receiving the selected radio station.

Notes

- The service contents mentioned in this manual are current as of July, 2009. These contents are subject to change or cancellation without notice.
- If after selecting a radio station the unit does not connect within 60 seconds, "Cannot connect to the radio station." appears in the display. If you select [OK], the playback display appears with no sound. In such case, wait for a while, and then press ▶||. If this does not solve the problem, select the different radio station.

Tip

If the standby mode is set to "Quick Start-up", the radio station that was playing when the unit is turned off will start playing again when the unit is turned on again. (The standby mode is factory set to "Power Save". To save the information of the last radio station even when the unit is turned off, change the standby mode to "Quick Start-up". For details on standby mode setting, see page 49.)

To update Live365 and SHOUTcast information

Select [Update info] while the list of radio stations is displayed.

The unit obtains the latest information and displays an updated list of radio stations.

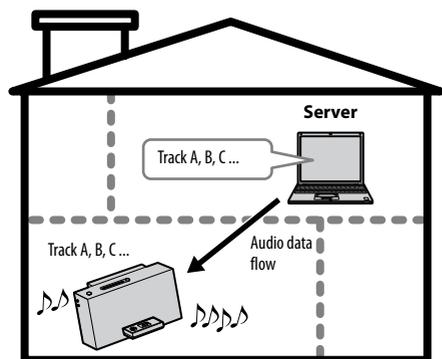
Other operations

To	Do the following
Pause reception of a radio broadcast	Press ▶ . Press ▶ again to resume the broadcast.
Change the radio station	Press BACK to go back to the radio station list and select a station again. To go back to the radio reception display while a list is displayed, press BACK repeatedly until reaching the highest directory, press ▲/▼ to select [To playback display], and then press ENTER.

Playing audio data stored on a computer

This unit can play audio data that is stored on a computer that supports the DLNA (Digital Living Network Alliance) standards.

Before playing audio data, the supplied VAIO Media plus software must be installed on your computer and the unit must be connected to the computer through a wireless LAN network (wireless router/wireless LAN access point). For details on the installation and network connections, refer to “Preparing a computer to use as a server (VAIO Media plus)” (page 16), or “Connecting the unit to your home network (network setting)” (page 18).



The VAIO Media plus software enables the playback of tracks stored on the computer in the MP3, LinearPCM, WAV, WMA and AAC (“m4a”) formats. Tracks with copyright protection (Digital Rights Management) cannot be played by this unit.

Note

Make sure that your computer is turned on in advance.

1 Enter the Home Network function from the Home menu.

2 Select the server to be connected.

When the server selection display appears, press ▲/▼ to select the server.

If the server selection display does not appear, do the procedure “To change a server” (page 35) to select the server.

3 Press ▲/▼ to select the item you want to play.

The items that are displayed (tracks, artists, albums, genres, folder name, etc.) depends on the connected server.

- Press BACK to go to the next higher directory.
- Press ENTER to go to the next lower directory.
- Press ◀/▶ to go one page up or down.

4 Press ENTER to select the track you want to play.

The unit starts playing the selected track and the playback display appears.

Make sure that there is sound output from the speakers of the main unit.



Playback indication and time information (elapsed time)

Tip

If the standby mode is set to “Quick Start-up”, the track on the computer that was playing when the unit is turned off will start playing again when the unit is turned on again. (The standby mode is factory set to “Power Save”. To save the information of the last track played even when the unit is turned off, change the standby mode to “Quick Start-up”. For details on standby mode setting, see page 49.)

Notes

- Tracks that the unit cannot play appear in the display as well. You cannot sort a list of playable tracks.
- Tracks that cannot be played on the unit appear gray in the list and are skipped during playback.
- If the connected server contains a large amount of audio data, it may take a while for the display to change while the unit is searching for a track.
- Some or all of the tracks may not be found on the connected server immediately after the VAIO Media plus software is installed. In this case, wait a few minutes and do step 2 again to select the server.

Other operations

To	Do the following
Pause playback	Press ▶ during playback. Press ▶ again to resume playback.
Find a point in a track	Press and hold ◀/▶ during playback and release it at the desired point.
Go to the beginning of the current track, previous track, or next track	Press ◀/▶ repeatedly.
Reselect the item you want to play	Press BACK repeatedly until the desired directory appears. To go back to the playback display, press BACK repeatedly until reaching the highest directory, press ▲/▼ to select [To playback display], and then press ENTER .

To change the play mode

You can change the play mode during playback or play-paused. Press **OPTIONS** to enter the Options menu, select [Play Mode], and then select the desired play mode.

Play mode	Description
◆ Continue	The unit plays all tracks in the selected item (album, artist, etc.) in sequential order.
All Repeat	The unit plays all tracks in the selected item (album, artist, etc.) repeatedly.
1 Repeat	The unit plays the currently selected track repeatedly.
Shuffle	The unit plays the tracks in the selected item (album, artist, etc.) in random order.
Shuffle Repeat	The unit plays the tracks in the selected item (album, artist, etc.) in random order repeatedly.

(◆: Factory setting)

To change a server

When you want to change to a different server, do the following procedure.

- 1 Enter the Home Network function from the Home menu.
- 2 Press **BACK** repeatedly until reaching the highest directory.
- 3 Press **▲/▼/◀/▶** to display [Select server] in a list, and then select [Select server].



4 When “Disconnect from the current server.” appears, select [OK].

The unit is disconnected from the server and a list of servers appears.

The icon next to the server name indicates the server type.

Icon	Server type
No icon	This is a server you have connected to before and which is presently operating.
	This is a server you have connected to before, but which is presently not operating or not recognizable.
	This is a server you have never connected to before.

5 Press ▲/▼ to select the server and press ENTER.

To update the server list

Select [Update info] while the server list is displayed. The unit searches for new servers and an updated server list appears.

Tip

The unit keeps a history of the last ten connected servers. This history can also be deleted (below).

To edit the server list

You can delete non-operating or unrecognizable servers from the list.

1 Select [Settings] from the Home menu. Settings menu appears.

2 Select [Common Setting] – [Server Delete].

A list of deletable servers appear.

If there are no deletable servers, “There is no server to delete.” appears in the display.

3 Press ▲/▼ to select the server you want to delete and press ENTER.

Each time you press ENTER, the check box is checked or unchecked.

4 Select [OK].

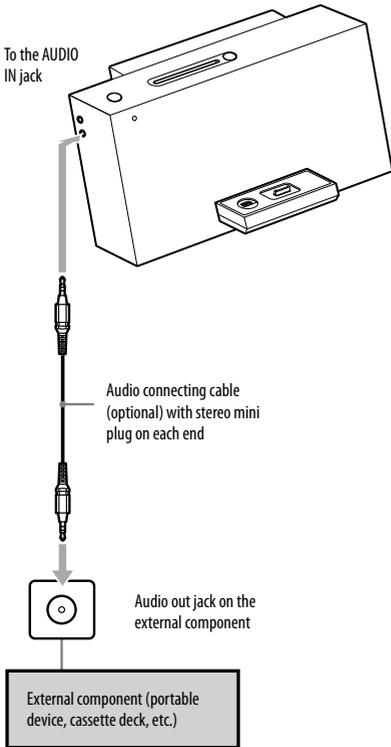
All checked servers are deleted.

Note

Servers that are presently operating do not appear on the deletable server list and cannot be deleted.

Listening to audio material from an external component (Audio In)

You can listen to the playback sound from an external component (such as a cassette deck) connected to the AUDIO IN jack on the unit.



- 1** Press **-** on the remote control to turn the volume down to its lowest level.
- 2** Prepare the sound source.
Connect the external component to the AUDIO IN jack on the side of the main unit using an audio connecting cable (not supplied).
- 3** Select the Audio In function from the Home menu.
- 4** Start playback of the connected component and adjust its volume.
- 5** Press **+/-** on the remote control to adjust the volume.

Before using a USB device with this unit

For details on the compatible USB devices, refer to the customer support site of Sony Europe, <http://support.sony-europe.com/>

Notes

- When USB cable connection is necessary, connect the USB cable supplied with the USB device. Refer to the operating manual supplied with the USB device for details on the operation method.
- It may take about 10 seconds before “Reading” appears depending on the type of USB device connected.
- Do not remove the USB device during transfer, recording or erase operations. Doing so may corrupt the data on the USB device or damage the USB device itself.
- Do not connect the unit and the USB device through a USB hub.
- When the USB device is connected, the unit reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
- When you select [Record to USB] to perform transferring/recording operation, the unit will re-check the USB device. Re-checking may take a while for the USB device to be ready for transfer/recording. Therefore, make sure to select [Record to USB] ahead of when playback or the radio program is due to start. This will ensure the USB device is ready and in stand by for when you want to start transferring/recording.
- With some connected USB devices, there may be a delay after an operation is performed.
- Compatibility with all encoding/writing software, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise, interrupted audio, or may not play at all.
- This unit cannot transfer/record audio data from an audio source or play audio files on the USB device in the following cases.
 - When the number of audio files in a folder exceeds 150.
 - When the number of folders on a USB device exceeds 1,000 (including the “ROOT” and the “MUSIC” folders).
 - When the number of files on a USB device exceeds 3,000. These numbers may vary depending on the file and folder structure. Do not save other types of files or unnecessary folders on a USB device that has audio files.

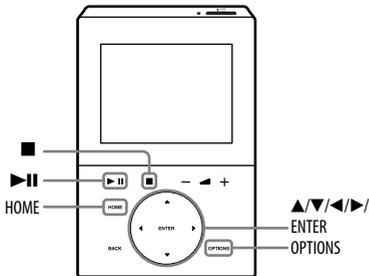
Playing audio data stored on a USB device

You can connect a USB device to the unit and listen to the audio data stored on the USB device. The following audio formats can be played back by this unit.

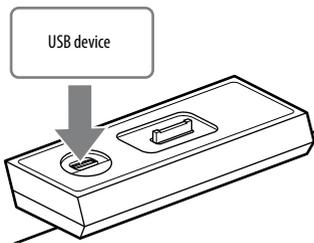
- MP3 (“.mp3”)*1
- WMA (“.wma”)*1
- AAC other than HE AAC (“.m4a”, “.3gp”, “.mp4”)*2)*1

*1 Files with copyright protection (Digital Rights Management) cannot be played by this unit. Files downloaded from Internet websites (including online music stores) may not be played by this unit.

*2 Only audio files can be played by this unit. Movie files cannot be played.



1 Connect the USB device to the  (USB) connector.



Make sure the USB device is firmly connected.

2 Select the USB function from the Home menu.

3 Press **▶||**.
Playback starts.

Other operations

To	Do the following:
Stop playback	Press ■ . To resume playback, press ▶ . *1 To cancel resume playback, press ■ again.
Pause playback	Press ▶ . Press ▶ again to resume playback.
Find a point in a file	Press and hold ◀/▶ during playback, and release it at the desired point.
Select a file	Press ◀/▶ .
Select a folder	Press ▲/▼ .

*1 When playing a VBR (variable bit rate) MP3, WMA, or AAC file, the unit may resume playback from a different point.

To change the play mode

You can change the play mode while playback is stopped.

Press **OPTIONS** to enter the Options menu, select [Play Mode], and then select the desired play mode.

Play mode	Description
◆ Continue	The unit plays all of the files in the USB device in sequential order.
Folder Continue	The unit plays the files in the selected folder in sequential order.
Shuffle	The unit plays all of the files in the USB device in random order..
Folder Shuffle	The unit plays the files in the selected folder in random order.

(◆: Factory setting)

Note on shuffle play mode

When you turn off the unit, the selected shuffle play mode (“Shuffle” or “Folder Shuffle”) is cleared and the play mode returns to normal play.

To change the repeat mode

Repeated playback can be specified for the selected play mode.

Press **OPTIONS** to enter the Options menu, select [Repeat], and then select the desired repeat mode.

Repeat mode	Description
◆ Off	Repeat play is off.
All	The unit plays all of the files repeatedly in the selected play mode.
1 Track	The unit plays the selected file repeatedly.

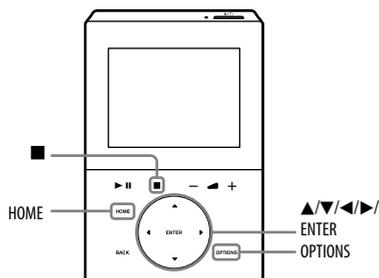
(◆: Factory setting)

Notes

- The following USB device/situations can increase the time it takes to start playback;
 - a USB device recorded with a complicated tree structure.
 - the memory capacity for the USB device is very large.
- The unit can play folders to a depth of 8 folders only.
- Resume play is cancelled when you turn off the unit or change the function.
- This unit does not necessarily support all the functions provided in a connected USB device.
- The playback order for the unit may differ from the order of the connected USB device.
- Folders that have no audio files are skipped.
- The following audio formats can be played back by this unit (files with copyright protection (Digital Rights Management) cannot be played by this unit).
 - MP3 (“.mp3”)
 - WMA (“.wma”)
 - AAC other than HE AAC (“.m4a”, “.3gp”, “.mp4”^{*1})Note that even when file names have the above file extensions, if the actual file differs, the unit may produce noise or may malfunction.
- ^{*1} Only audio files can be played by this unit. Movie files cannot be played.
- Compatibility with all encoding/writing software, recording devices, and recording media cannot be guaranteed and may produce noise, interrupted audio, or may not play at all.

Transferring or recording audio data to a USB device

You can connect an optional USB device to the  (USB) connector on the unit and transfer/record audio data to the USB device.



4 Select the memory to which audio data is to be transferred/recorded.

A maximum of 5 memories are displayed ([No. 1] to [No. 5]).

5 Press ENTER.

The unit changes to the USB function automatically.

Tip

You can select the memory during the USB function. Press OPTIONS, select [USB Memory Select], and then select the memory.

To select the memory on the USB device

For some USB devices, you may have to select the memory (i.e., internal memory or memory card) to which the audio data is to be transferred/recorded. To do this, carry out the following operation.

Be sure to select the memory before performing a file transfer or recording operation.

- 1 Connect the USB device to the  (USB) connector on the unit.
- 2 Select [Settings] from the Home menu.
- 3 Select [USB Memory Select].
“Switch to USB, when the setting is continued.” appears in the display. Select [OK] to continue the operation.

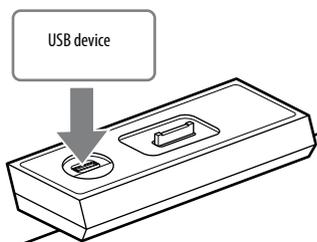
Transferring audio data from a disc to a USB device

You can transfer audio data from an audio CD (CD-DA) or MP3 disc only.

The amount of free space required on the USB device is about 1 MB per minute when transferring audio data from an audio CD. Required free space may be larger when transferring audio data from an MP3 disc.

You can easily transfer all the tracks/files on a disc to a USB device (CD-SYNC). You can also transfer a track/file that is currently being played back (REC 1).

-
- 1 Connect the USB device to the  (USB) connector.



Make sure the USB device is firmly connected.

-
- 2 Select the CD function from the Home menu.

-
- 3 Insert a disc.

When the unit automatically starts playback, press  to cancel playback.

-
- 4 Select the item you want to transfer.

Synchronized transfer (CD-SYNC):

- If you want to transfer a specific folder on the MP3 disc, select the “Folder Continue” play mode, and then select the desired folder (page 26).
- If you want to transfer the whole contents on the disc, skip this step and go to step 5.

Single track/file transfer (REC 1):

- If you want to transfer a track/file, start playing the desired track/file.

-
- 5 Press **OPTIONS** to enter the Options menu.

-
- 6 Select [Record to USB].

A confirmation message appears and the USB device stands by for the transfer.

-
- 7 Select [OK].

Transfer starts.

While transferring audio data, no sound is output from the speakers.

When using CD-SYNC:

When the transfer is completed, access to the USB device and the CD player stop automatically.

When using REC 1:

When the transfer is completed, access to the USB device stops automatically and the CD player continues playback.

To stop a transfer

Press .

Folder and file generation rules

When first transferring audio data to the USB device, a "MUSIC" folder is created directly below the "ROOT" folder.

Folders and files are generated within this "MUSIC" folder as follows.

CD SYNC

Source	Folder name	File name
MP3	Same as the source*1	
CD-DA	"CDDA0001"*2	"TRACK001"*3

REC 1

Source	Folder name	File name
MP3	"REC1-MP3"*4	Same as the source*1
CD-DA	"REC1-CD"*4	"TRACK001"*3

*1 Up to 64 characters of folder name and 60 characters of file name are assigned.

*2 Folder numbers are assigned serially thereafter up to the maximum of 1,000 (including the "ROOT" and the "MUSIC" folders).

*3 File numbers are assigned serially thereafter up to the maximum of 150.

*4 A new file is created in the "REC1-MP3" or "REC1-CD" folder each time REC 1 is performed.

Notes

- When transferring audio data from a CD, the tracks are transferred as 128 kbps MP3 files. When transferring audio data from an MP3 disc, MP3 files are transferred with the same bit rate as the original MP3 files.
- If you cancel audio data being transferred from a CD-DA disc partway, MP3 files are created up to the point when the transfer is stopped.
- If you cancel audio data being transferred from an MP3 disc partway, an incomplete MP3 file generated on the USB device will be deleted.
- Transfer stops automatically when:
 - the USB device runs out of space during the transfer process.
 - the number of files or folders on the USB device reaches the limit for the number that the unit can recognize.
- If the space on the USB device has reached to the maximum during the transfer, transfer stops.
- If you start a synchronized transfer (CD-SYNC) in shuffle play mode or repeat play mode, the selected play mode is automatically cancelled and the play mode switches to normal play.
- CD text information is not transferred in the created MP3 files.
- If a folder or file that you are trying to transfer already exists on the USB device with the same name, a sequential number is added after the name without overwriting the original folder or file.

* For the UK model only

Recording audio material to a USB device

You can record an FM/AM/DAB* broadcast or from an external component connected to the AUDIO IN jack. Tracks are automatically recorded and stored in the MP3 audio format and a bit rate of 128 kbps.

Note

Do not insert a disc while recording. If you do so, the unit will automatically change to the CD function, and MP3 files are created up to the point when the recording is stopped.

1 Connect the USB device to the  (USB) connector.

2 Select the sound source.

When recording an FM/AM/DAB* radio broadcast:

Select the Tuner function from the Home menu, select [FM], [AM], or [DAB]*, and then tune in the desired radio program (page 27).

When recording from an external component (Audio In):

Connect the external component to the AUDIO IN jack on the unit and select the Audio In function from the Home menu (page 37).

3 Press **OPTIONS** to enter the Options menu.

4 Select [Record to USB].

A confirmation message appears and the USB device stands by for recording.

Note

It may take a while for the USB device to be ready for recording. Therefore, it is recommended that you allow enough time not to miss any recording opportunity, especially when recording from the tuner.

5 Select [OK].

When recording from an external component (Audio In), start playback the source before selecting [OK].

Recording starts.

To stop recording

Press ■.

To add track marks

You can add track marks during recording. Press OPTIONS to enter the Options menu and select [Record to USB] at the point you want to add a track mark.

The unit pauses recording for a few seconds and adds a track mark, showing a message “Creating MP3 file. Recording is stopped.” No sound is recorded during pause time.

Notes

- The unit automatically adds track marks at 60-minute intervals.
- After adding a track mark, at least 4 seconds must pass before the next track mark can be added.

Folder and file generation rules

When first recording analog audio to a USB device, a “MUSIC” folder is created directly below the “ROOT” folder.

Folders and files are generated within this “MUSIC” folder as follows.

Source	Folder name	File name
FM	“TUFM0001” ^{*1}	“TRACK001” ^{*1}
AM	“TUAM0001” ^{*1}	
DAB	“TUDB0001” ^{*1}	
Audio In	“EXAU0001” ^{*1}	“TRACK001” ^{*1}

^{*1} Folder and file numbers are assigned serially thereafter.

Note

Recording stops automatically when:

- you change the function.
- you change the band.
- you insert a disc in the disc slot.
- you turn off the system.
- the USB device runs out of space during recording.
- the number of files or folders on the USB device reaches the limit for the number that the unit can recognize.

To erase audio files or folders on the USB device

You can erase audio files or folders from the USB device. Note that you cannot erase files or folders when shuffle play has been set.

Note

Do not insert a disc during erase operation. If you do so, the unit will automatically change to the CD function, and audio files or folders are deleted up to the point when the erase is stopped.

1 Connect the USB device to the  (USB) connector.

2 Select the USB function from the Home menu.

3 While playback is stopped, press /// to select the folder or file that you want to erase.

4 Press OPTIONS to enter the Options menu.

5 Select [Erase].

A confirmation message appears.

6 Select [OK].

The selected file or folder is erased.

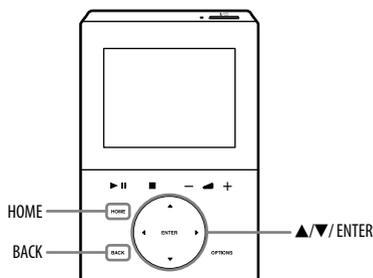
To cancel the procedure

Select [Cancel] in step 6, or press HOME.

Note

Erase operation can be performed only when the playback is stopped.

Setting the sound quality



Tip

You can select the sound style even when a function is selected. Press OPTIONS during any function to enter the Options menu, select [Sound] – [Sound Effects], and then select the sound style.

Selecting a sound style

You can select the sound style from six preset equalizer settings to match the genre of music.

- 1 Select [Settings] from the Home menu.
- 2 Select [Sound] – [Sound Effects].
- 3 Select the sound style.
You can select the style from [Standard]*¹, [Dynamic], [Relax], [Vivid], [Live], or [Off].
^{*1} Factory setting

To cancel the procedure

Press HOME.

To go back to the previous display

Press BACK.

Generating a more dynamic sound (Dynamic Sound Generator X-tra)

You can reinforce the bass and create a more powerful sound.

- 1 Select [Settings] from the Home menu.
- 2 Select [Sound] – [DSGX].
- 3 Select [On]*¹.
To turn it off, select [Off] in this step.
^{*1} Factory setting

To cancel the procedure

Press HOME.

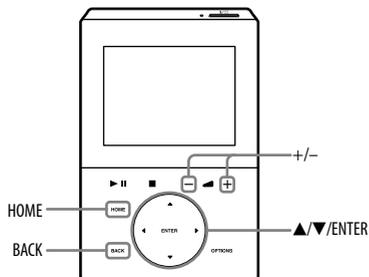
To go back to the previous display

Press BACK.

Tip

You can set the DSGX setting even when a function is selected. Press OPTIONS during any function to enter the Options menu, select [Sound] – [DSGX], and then select [On] or [Off].

Using the timer



Using the Sleep Timer

You can set the Sleep Timer so that the unit enters standby mode automatically after a certain period of time (Sleep Timer function). This function operates even if the clock is not set.

1 Select [Settings] from the Home menu.

2 Select [Sleep Timer].

3 Select the time interval.

You can select the interval from [Off]*¹, [10 minutes], [30 minutes], [60 minutes], or [90 minutes].

*¹ Factory setting

After the selected time elapses, the unit enters standby mode automatically.

To cancel the procedure

Press HOME.

To go back to the previous display

Press BACK.

Tips

- You can set the Sleep Timer even when a function is selected. Press OPTIONS during any function to enter the Options menu, select [Sleep Timer], and then select the time interval.
- If you set both Sleep Timer and Play Timer at the same time, the Sleep Timer takes priority.

Note

If you perform the following operations before the Sleep Timer goes off, the Sleep Timer resets.

- Disconnect the power cord.
- Turn off the unit.
- Select [Settings] from the Home menu and perform [Common Setting] – [System Reset].

Using the Play Timer

You can set the Play Timer to start playing a radio program, an iPod, a USB device, or a CD at a specified time (Play Timer function). Make sure you have set the clock.

- 1** Prepare the sound source.
Select the sound source (radio, iPod, USB device, or CD), and then press +/- to adjust the volume.

- 2** Select [Settings] from the Home menu.

- 3** Select [Play Timer].

- 4** Select [On].
The Play Timer setting display appears.

- 5** Set the starting time.
Press ▲/▼ to change the hour and press ENTER. The cursor moves to the minute setting. Do the same operation to set the minute.
Press and hold ▲/▼ to change the parameter sequentially.

- 6** Set the ending time.
Do the same operation as step 5 to set the end time.

- 7** Select the source ([Tuner], [iPod], [USB], or [CD]) you want to play.

- 8** When "Confirm "Play Timer" settings:" appears, select [OK].

To cancel the procedure

Select [Cancel] in step 8 or press HOME.

To go back to the previous display

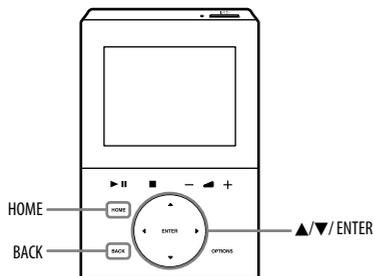
Press BACK.

Notes

- The Play Timer is erased if you disconnect the power cord of the main unit.
- If the unit is already turned on at the preset starting time, the Play Timer will not be activated.
- The Play Timer may not be activated depending on the status of the connected iPod.
- The ending time for the Play Timer cannot be the same as the starting time.

Viewing the unit's information

You can view the various settings.
To view the settings, do the following operation.



Item	Description
Firmware Version	You can check the firmware version of the unit.
Device ID	You can check the device ID that is used for the Internet radio.

To cancel the procedure

Press HOME.

To go back to the previous display

Press BACK.

1 Select [Settings] from the Home menu.

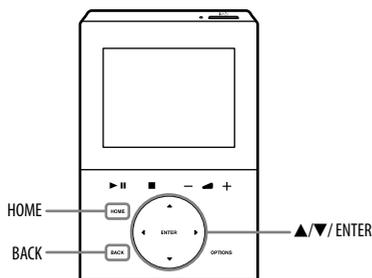
2 Select [Device Information].

3 Select the item you want to view.

Item	Description
My Name	This is the name that is set for this unit and is displayed on the server.
Network Information	You can view the following information. <ul style="list-style-type: none">● Connection Setting● Network name (SSID)● Security Setting● IP Address Setting● IP Address/Subnet mask● Default Gateway● DNS Server Setting● DNS 1/DNS 2● Proxy Setting
MAC Address	You can check the MAC address of the unit.

Setting the standby mode

You can select the power status of the unit while it is in standby mode.



1 Select [Settings] from the Home menu.

2 Select [Standby Mode].

3 Select [Power Save] or [Quick Start-up].

◆ Power Save	With this setting, the unit is slow to respond when you turn on the unit, but the power consumption in standby mode is low. When the unit is turned off, the unit does not save any information regarding the computer track that was last playing (when using the Home Network function) or the Internet radio station that was last on (when using the Internet Radio function). (ON/STANDBY indicator: red)
--------------	--

Quick Start-up	With this setting, the unit is fast to respond when you turn on the unit, but the power consumption in standby mode is high. When the unit is turned off, it saves information regarding the computer track that was last playing (when using the Home Network function) or the Internet radio station that was last on (when using the Internet Radio function). The unit then resumes playing the track or the radio station when it is next turned on. (ON/STANDBY indicator: amber)
----------------	---

(◆: Factory setting)

To cancel the procedure

Press HOME.

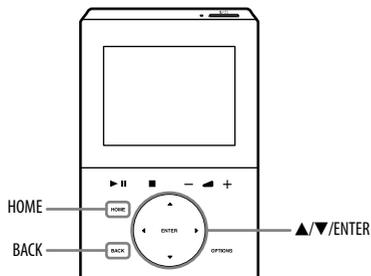
To go back to the previous display

Press BACK.

Note

Even if standby mode is set to "Quick Start-up", information about the last track or radio station will not be saved if the unit is turned off by disconnecting the power cord from the wall outlet.

Changing the remote control settings



Changing the display brightness

You can change the brightness of the display on the remote control.

- 1 Select [Settings] from the Home menu.
- 2 Select [Remote Control] – [Brightness].
- 3 Set a brightness level of 1 to 5. The factory setting is level 3. “1” is the brightest level and “5” is the darkest.

To cancel the procedure

Press HOME.

To go back to the previous status

Press BACK.

Changing the backlight status

You can specify how long the display backlight stays on when the remote control is on or off the charger.

To set the backlight status when the remote control is on the charger

- 1 Select [Settings] from the Home menu.
- 2 Select [Remote Control] – [Backlight Timer].
- 3 Select [On-charger].
- 4 Select [Always On] or [Auto Off (60sec)].

◆ Always On	The backlight stays on all the time.
Auto Off (60sec)	The backlight turns off when no operation is performed for 60 seconds.

(◆: Factory setting)

Notes

- [Always On] is selectable only when the remote control is placed on the charger.
- If the automatic demonstration is set to [On] and the backlight timer is set to [Auto Off (60sec)], the demonstration starts playing when 60 seconds is elapsed and the backlight does not turn off.

To set the backlight status when the remote control is not on the charger

- 1 Select [Settings] from the Home menu.
- 2 Select [Remote Control] – [Backlight Timer].
- 3 Select [Off-charger].
- 4 Select [30 seconds], [60 seconds]*¹, or [90 seconds].
The backlight turns off after the selected duration has elapsed.
^{*1} Factory setting

To cancel the procedure

Press HOME.

To go back to the previous status

Press BACK.

Turning off the beep sound

- 1 Select [Settings] from the Home menu.
- 2 Select [Remote Control] – [Beep].
- 3 Select [Off].
The beep sound is turned off. To turn it on again, select [On]*¹ in this step.
^{*1} Factory setting

To cancel the procedure

Press HOME.

To go back to the previous status

Press BACK.

Troubleshooting

If a problem occurs while operating the unit, follow the steps described below before consulting your nearest Sony dealer. If an error message appears, it is recommended that you make a note of its contents for reference.

- 1 Check to see if the problem is listed in this "Troubleshooting" section.
- 2 Check the customer support site of Sony Europe at <http://support.sony-europe.com/> (for customers in Europe only). You will find the latest support information and a FAQ at this web site.
- 3 If after steps 1 and 2 you still cannot solve the problem, consult your nearest Sony dealer.

If the problem persists after doing all of the above, consult your nearest Sony dealer. When bringing the product in for repairs, be sure to bring in the entire system (main unit, remote control and charger). This product is a system product, and so the entire system is needed to determine the section requiring repair.

If the ON/STANDBY indicator flashes red

Immediately unplug the power cord, and check the following items.

- Is anything blocking the ventilation holes on the top or back of the main unit?
 - Is the iPod connector short-circuited?
- After the ON/STANDBY indicator stops flashing, reconnect the power cord, and turn on the unit. If the issue persists, contact your nearest Sony dealer.

Power

The unit does not turn on.

- ➔ Connect the power cord of the main unit to a wall outlet firmly (page 13).
- ➔ The battery in the remote control may be drained. Place the remote control on the charger to charge the built-in battery.
- ➔ The unit's internal system may be malfunctioning, or the unit may be suffering from strong electrical noise caused by power supply abnormalities due to being dropped, excessive static electricity, or lightning. In this case, disconnect the power cord of the main unit and the remote control charger, wait about 30 seconds, and then reconnect them.
- ➔ If the measures above do not solve the problem, reset the unit (page 62).

The unit does not turn off.

- ➔ Make sure the demonstration setting is set to [Off]. If it is set to [On], the unit will not turn off.
- ➔ The unit's internal system may be malfunctioning, or the unit may be suffering from strong electrical noise caused by power supply abnormalities due to being dropped, excessive static electricity, or lightning. In this case, disconnect the power cord of the main unit and the remote control charger, wait about 30 seconds, and then reconnect them.
- ➔ If the measures above do not solve the problem, reset the unit (page 62).
- ➔ The I/⏻ (power) button may not respond while the unit is still starting up.
- ➔ The unit enters standby mode when you turn off the power. If you want to completely turn off the power, disconnect the power cord.

The ON/STANDBY indicator remains lit after you unplug the power cord.

- ➔ The ON/STANDBY indicator may not turn off immediately after you unplug the power cord. This is not a malfunction. The indicator will turn off after 40 seconds.

Remote control

"Low battery. Please charge the remote control!" appears.

- ➔ The battery in the remote control is weak. Place the remote control on the charger to charge the built-in battery.
- ➔ If the usage time of the built-in battery becomes excessively short after charging, the battery may have deteriorated. In such a case, contact your nearest Sony dealer.

The remote control does not work.

- ➔ An inverter circuit for a fluorescent lamp is near the unit. Move the unit away from the circuit.
- ➔ Microwave ovens or wireless network devices are near the unit. Move the unit away from these devices.
- ➔ Try to reset the unit. Press the reset button on the remote control (page 62).

The buttons do not respond.

- ➔ The battery in the remote control may be drained. Place the remote control on the charger to charge the built-in battery.

Display

Various information and images appear in the display after you connect the power cord, even when you do not press I/⏻ (power). When the remote control is placed on the charger and no operation is performed for a while, various information and images appear in the display.

- ➔ The display is set to demonstration mode. To cancel demonstration mode, see page 24.

When the unit is turned on, the display on the remote control goes black.

- ➔ Touch any buttons on the remote control to turn the display on.

Sound output

There is no sound.

- ➔ The volume may be minimized. Press +/- buttons to adjust the volume.
- ➔ Cancel pause.
- ➔ Confirm that nothing is connected to the PHONES jack.
- ➔ Check the connections of the device connected to the unit. Check if the respective function is selected.
- ➔ The specified station may have temporarily stopped broadcast.

There is severe humming or noise in the sound.

- ➔ Move the audio connecting cord away from any display, fluorescent light, or other electrical devices.
- ➔ Move the unit away from any display or TV.
- ➔ If plugs or jacks are dirty, wipe them with a cloth slightly moistened with alcohol.
- ➔ The inserted disc is scratched or dirty.
- ➔ Connect the unit to a different wall socket.
- ➔ Install a noise filter (available separately) to the power cord.

The sound is distorted in the iPod function.

- ➔ Set the "EQ" setting of the iPod to "Off" or "Flat".

There is no sound from the headphones.

- ➔ Your headphones may not be plugged fully into the unit. Plug them in securely.

VAIO Media plus

The installation was not successful.

- ➔ The OS does not support this software (page 16).
- ➔ There is not enough free space on your hard disk (page 16).

The installation appears to have stopped before completion.

- ➔ Check for an error message underneath the installation window.

The VAIO Media plus software does not work correctly even after the initial setup is completed.

- ➔ If the firewall function in commercially available software is enabled on your computer, the VAIO Media plus software may not work correctly even after the initial setup is completed. To use the VAIO Media plus software with the firewall function enabled, you need to configure the computer to allow a server device and a client device to be connected to the network.

For commercially available firewall software

Change the settings on your firewall software to allow the following executable files to be run. For detailed instructions on how to change the settings, refer to the "Help" of the VAIO Media plus software or the operating manual supplied with the firewall software.

- Executable files for VAIO Media plus: VMp.exe, SOHClmp.exe, SOHDms.exe, SOHDs.exe
- Port used for VAIO Media plus:
The port number is displayed in the Advanced Settings window. The VAIO Media plus software uses this port. (To display the Advanced Settings window, select Sharing Settings in the VAIO Media plus Detailed Settings window and click Advanced Settings.)

Network connection

Manual connection

"Correct IP address is not assigned." appears on the display.

- ➔ Make sure the network setting has been correctly made (pages 18 to 21).

"An error occurred in security information." or "An error occurred while transferring security key." appears.

- ➔ There was an information exchange failure between the unit and the wireless router/wireless LAN access point. Wait a while, and then do the setup again.
- ➔ Place the unit and the wireless router/wireless LAN access point close to each other and do the setup again.

The unit cannot connect to the wireless network.

- ➔ Wireless networks are influenced by electromagnetic radiation emitted by microwave ovens and other devices. Move the unit away from these devices.
- ➔ Place the unit and the wireless router/wireless LAN access point close to each other and do the setup again.
- ➔ Check the settings of the wireless router/wireless LAN access point, and then do the setup again.

AOSS connection

This section assumes the use of an AOSS-compatible wireless station/wireless router/wireless LAN access point. You cannot set up an AOSS connection without an AOSS-compatible wireless station/wireless router/wireless LAN access point.

"No wireless station/access point in AOSS mode found." appears.

- ➔ The AOSS button on the wireless router/wireless LAN access point has not been pressed. Do the AOSS setup again.
- ➔ Place the unit and the wireless router/wireless LAN access point close to each other and do the AOSS setup again.

"An error occurred while transferring AOSS information.", "An error occurred in security information.", or "An error occurred while transferring security key." appears.

- ➔ There was an information exchange failure between the unit and the wireless router/wireless LAN access point. Wait a while, and then do the AOSS setup again.
 - ➔ Place the unit and the wireless router/wireless LAN access point close to each other and do the AOSS setup again.
-

"Another device is connected to the access point. Try again later." appears.

- ➔ The AOSS setup is being performed for another device. Wait a while, and then do the AOSS setup again.
-

"Multiple wireless stations/access points in AOSS mode found. Try again later." appears.

- ➔ Multiple wireless routers/wireless LAN access points in AOSS mode were detected. Wait a while, and then do the AOSS setup again.

Instant (S-IWS) connection

You cannot set up an Instant (S-IWS) connection without the Instant (S-IWS)-compatible Sony wireless station (supplied with Sony "GIGA JUKE" Music Server).

For troubleshooting related to Instant (S-IWS) connection, refer to the operating instructions supplied with your "GIGA JUKE" Music Server.

CD

Playback does not start.

- ➔ Confirm that a disc is inserted.
 - ➔ Insert the disc with the label side facing forward (page 25).
 - ➔ The inserted disc is of a kind not supported by the unit (pages 25, 66).
 - ➔ There is condensation in the disc slot. Remove the disc, turn off the unit for about 30 minutes, and then insert the disc again (page 63).
 - ➔ The disc does not conform to the CD standard.
 - ➔ The inserted disc is scratched or dirty.
-

The sound skips, or the disc will not play.

- ➔ The disc does not conform to the audio CD standard.
 - ➔ The inserted disc is scratched or dirty.
 - ➔ Move the unit to a location away from vibration (for example, on top of a stable stand).
 - ➔ At high volume, speaker vibration may cause the sound to skip.
-

Some tracks cannot be played.

- ➔ If you are using a multisession disc with an audio CD format, only tracks recorded in the first session can be played.
-

MP3 files cannot be played.

- ➔ MP3 files that do not conform with the ISO 9660 Level 1, 2, or Joliet standard are recorded on the disc.
 - ➔ Files without the ".mp3" extension cannot be played. If a file on a disc is not an MP3 file but has an ".mp3" extension, the unit tries to play that file and it may cause noise in the sound or the unit to malfunction.
 - ➔ The files have the ".mp3" extension, but they are in a format other than MPEG-1 Audio Layer 3.
-

Playback does not start from the first track.

- ➔ Shuffle play or shuffle repeat play is selected. Set the play mode to normal (page 26).

Starting playback takes more time than usual.

- ➔ The following discs take a longer time to start playback.
 - a disc recorded with a complicated tree structure.
 - a disc recorded in multisession mode.
 - a disc that has not been finalized (a disc to which data can be added).
 - a disc that has many folders.

The function automatically changes to the CD function when you insert a disc.

- ➔ This unit will automatically change to the CD function when a disc is inserted.

The unit does not eject the disc and “LOCKED” appears.

- ➔ Contact your Sony dealer or local authorized Sony service facility.

The unit does not eject the disc and “Invalid operation.” appears.

- ➔ You cannot eject a disc in the following cases.
 - When audio data is being transferred or recorded to the USB device.
 - When erasing audio files or folders on the USB device.

FM/AM and DAB*

Radio broadcasts cannot be received or there is severe hum or noise.

- ➔ Connect the antennas (aerials) correctly (pages 13, 14).
- ➔ Adjust the antenna (aerial) position.
- ➔ Keep the antennas away from the power cord, the remote control, the remote control charger, the AC power adaptor and the USB cable to avoid picking up noise.

- ➔ Turn off nearby electrical equipment.
- ➔ When the FM broadcast is received in stereo, switch the reception to monaural (page 28).
- ➔ Consult your nearest Sony dealer if the supplied AM loop antenna has come off the plastic stand.

RDS is not working.

- ➔ Make sure that you tune in an FM station.

DAB broadcast cannot be received.*

- ➔ Check all aerial connections, then perform the DAB Automatic Scan procedure (page 28).
- ➔ The current DAB station is not available. Select a different station (pages 27, 28).
- ➔ If you have moved to another area, some stations/frequencies may have changed and you may not be able to tune into your usual broadcast. Perform the DAB Automatic Scan procedure to retune the radio stations (page 28). (Performing this procedure clears all previously stored presets.)

iPod

“Cannot detect iPod. Please confirm the connection.” appears.

- ➔ Make sure the iPod is connected securely.

There is no sound.

- ➔ Make sure the iPod is connected securely.
- ➔ Make sure the iPod is playing music.
- ➔ Adjust the volume.

The sound is distorted.

- ➔ Turn down the volume.
- ➔ Set the sound style to “Standard” (page 45).

* For the UK model only

The remote control does not function.

- ➔ Make sure the iPod is updated with the latest software. If not, update the iPod before using with the unit.

The iPod cannot be charged.

- ➔ Make sure the iPod is connected securely.
- ➔ You can use the unit as a battery charger for iPod only when the unit is on.

Internet Radio

You cannot connect the unit to the Internet. ("Cannot connect to the radio station." or "A communication error occurred. Information retrieval cancelled." appears.)

- ➔ Make sure that the wireless router/wireless LAN access point is turned on.
- ➔ The network settings on the unit may be incorrect. Enter the Settings menu and select [Device Information] to check the settings (page 48).
- ➔ Place the unit and the wireless router/wireless LAN access point close to each other.
- ➔ If your contract with your Internet provider limits Internet connection to one device at a time, this device will not be able to access the Internet when another device is already connected. Consult your carrier or service provider.

The sound skips.

- ➔ The bandwidth of your wireless LAN may be too low. Place the unit and the wireless router/wireless LAN access point close to each other, without any obstacles between.

Home Network

The unit cannot connect to a network. ("Cannot connect to the server.", "A communication error occurred.", or "A communication error occurred. Information retrieval cancelled." appears.)

- ➔ Make sure that the wireless router/wireless LAN access point is turned on.
- ➔ Make sure that the computer is turned on.
- ➔ The network settings on the unit may be incorrect. Enter the Settings menu and select [Device Information] to check the settings (page 48).
- ➔ The computer may be unstable. Restart it.
- ➔ Confirm that the unit and the computer are connected to the wireless router/wireless LAN access point correctly.
- ➔ Check the following conditions to confirm that the unit and the computer are properly prepared:
 - The server has started.
 - This unit has been registered.
- ➔ Place the unit and the wireless router/wireless LAN access point close to each other.
- ➔ If the ICF (Internet Connection Firewall) function is active on the computer, this may prevent the unit from connecting to the computer. You may need to change the firewall settings to allow the unit to connect. (For details on changing the firewall settings, refer to the operating manual of your computer).
- ➔ If you reset the unit or performed a system recovery on your computer, perform the network settings again (page 18).

The computer does not appear in the server selection display.

- ➔ You may have turned on this unit before you turned on the computer. Select [Update info] in the server selection display to update the server list (page 36).
- ➔ Make sure that the wireless router/wireless LAN access point is turned on.

- ➔ Make sure that the computer is turned on.
- ➔ Check the following conditions to confirm that the unit and the computer are properly prepared:
 - The server has started.
 - This unit has been registered.

You cannot play audio data normally.

- ➔ Shuffle play or shuffle repeat play is selected. Set the play mode to normal (page 35).

The sound skips during playback.

- ➔ The bandwidth of your wireless LAN may be too low. Place the unit and the wireless router/wireless LAN access point close to each other, without any obstacles between.
- ➔ Your computer may be running many applications. If anti-virus software is active on the computer, temporarily disable the software as it needs large amount of system resources.
- ➔ Depending on the network environment or any radio interference, it may not be possible to play tracks with more than one devices operating at the same time. Turn off another device to enable the unit to play tracks.

You cannot find a point in a track.

- ➔ You cannot find a point in such content as follows by system limitations:
 - A track of which the time length is unknown.
 - Copyrighted WMA-format tracks.

"Incompatible format found. Cannot play." appears.

- ➔ You cannot play any files other than audio files.
- ➔ Check to confirm whether the audio file on the server is damaged or erased. Refer to the operating manual of the server.

"Cannot play back." appears.

- ➔ You cannot play the following tracks:
 - A track that violates playback restrictions.
 - A track with irregular copyright information.
 - A track that you purchased at an online music store that does not allow home network streaming.
 - A track in a format unsupported by the unit (page 34).
- ➔ Confirm that the selected track has not been erased from the server. If the track has been erased, select another track.
- ➔ Make sure that the wireless router/wireless LAN access point is turned on.
- ➔ Make sure that the computer is turned on.
- ➔ The computer may be unstable. Restart it.
- ➔ Confirm that the unit and the computer are connected to the wireless router/wireless LAN access point correctly.

"There are no playable tracks." appears.

- ➔ If there are no tracks or folders in the selected folder, you cannot extend the folder to display its contents.

You cannot play a copyrighted WMA format track.

- ➔ Depending on the WMA file format, some tracks may not be able to play.

You cannot select a previously selected track.

- ➔ The track information may have been changed on the computer. Reselect the computer in the server selection display (page 35).

USB

An error occurs while using the USB function.

- ➔ If you connect an unsupported USB device, the following problems may occur. For details on the compatible USB devices, refer to the customer support site of Sony Europe, <http://www.sony-europe.com/>
 - The USB device is not recognized.
 - File or folder names are not displayed on the unit.
 - Playback is not possible.
 - The sound skips.
 - There is noise.
 - A distorted sound is output.
 - Transferring or recording stops before it is finished.

"Detected an abnormal condition at the USB port. Please disconnect." appears.

- ➔ The  (USB) connector may be malfunctioning, or the unit may be suffering from strong electrical noise caused by power supply abnormalities due to being dropped, excessive static electricity, or lightning. In this case, disconnect the power cord of the main unit and the remote control charger, wait about 30 seconds, reconnect them, and then connect the USB device.

The USB device is not recognized.

- ➔ Reconnect the USB device.
- ➔ Connect the supported USB device.
- ➔ The USB device does not work properly. Refer to the operating manual of the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

The unit cannot start transferring/recording audio data to a USB device.

- ➔ The following problems may have occurred.
 - The USB device is full. Erase unnecessary data from the USB device (page 44).
 - The number of tracks and folders on the USB device has reached the upper limit. Erase unnecessary data from the USB device (page 44).
 - The USB device is write-protected.
 - Excess current has been detected. In this case, disconnect the power cord of the main unit and the remote control charger, wait about 30 seconds, reconnect them, and then connect the USB device.

The unit stops the transfer/recording before it is finished.

- ➔ You are using an unsupported USB device.
- ➔ The USB device is not formatted correctly. Refer to the operating manual of the USB device for the formatting operation.
- ➔ Turn off the unit and disconnect the USB device. If the USB device has a power switch, turn off the USB device, and turn it on again after you disconnected it from the unit. Then perform the transfer/recording operation again.
- ➔ If the transfer/recording and erase operations are done repeatedly, the file structure within the USB device becomes complex. Refer to the operating manual of the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

Transfer, recording or erase operation stops partway, and automatically changes to the CD function.

- ➔ When a disc is inserted, this unit will stop transfer, recording, or erase operation.

Transferring/recording to a USB device results in an error.

- ➔ The USB device is full. Erase unnecessary data from the USB device (page 44).
- ➔ The number of tracks and folders on the USB device has reached the upper limit. Erase unnecessary data from the USB device (page 44).
- ➔ You are using an unsupported USB device.
- ➔ Turn off the unit and disconnect the USB device. If the USB device has a power switch, turn off the USB device, and turn it on again after you disconnected it from the unit. Then perform the transfer/recording operation again.
- ➔ The USB device was disconnected or the power was turned off during transfer/recording. Delete the partially-transferred/recorded track. If this does not solve the problem, the USB device may be damaged. Refer to the operating manual of the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

Tracks or folders on the USB device cannot be erased.

- ➔ Check if the USB device is write-protected.
- ➔ The USB device was disconnected or the power was turned off during erase operation. Delete the partially-erased track. If this does not solve the problem, the USB device may be damaged. Refer to the operating manual of the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

There is no sound.

- ➔ The USB device is not connected correctly. Turn off the unit, turn on the unit again, and then reconnect the USB device.

There is noise, sound skipping, or distorted sound.

- ➔ Turn off the unit, then reconnect the USB device.
- ➔ The music data itself contains noise. Noise may have entered during the transfer/recording process. Delete the file, and try transferring/recording again.

The USB device cannot be connected into the ⚡ (USB) connector.

- ➔ The USB device is being connected backwards. Connect the device in the correct orientation.

"Reading" is displayed for an extended time, or it takes a long time before playback starts.

- ➔ The reading process can take a long time in the following cases.
 - There are many folders or files on the USB device.
 - The file structure is extremely complex.
 - The memory capacity is very large.
 - The audio files are damaged.
 - The internal memory is fragmented.

Erroneous display

- ➔ Transfer/record the track to the USB device again, as the data stored in the USB device may have been corrupted.
- ➔ The character codes that can be displayed by this unit are numbers and alphabet only. Other characters are not displayed correctly.

Playback does not start.

- ➔ You are using an unsupported USB device.
- ➔ Only tracks in the MP3 (".mp3")^{*1}, WMA (".wma")^{*1} and AAC (".m4a", ".3gp", ".mp4")^{*2} format can be played by this unit. Tracks in other formats cannot be played (page 39).
 - ^{*1} Tracks with copyright protection (Digital Rights Management) cannot be played by this unit. Tracks downloaded from Internet websites (including online music stores) may not be played by this unit.
 - ^{*2} Only audio files can be played by this unit. Movie files cannot be played.
- ➔ Turn off the unit, then reconnect the USB device, and then turn on the unit.

Playback does not start from the first track.

- ➔ Shuffle play or shuffle repeat play is selected. Set the play mode to normal (page 40).

Tracks cannot be played back.

- ➔ Only tracks in the MP3 (".mp3")^{*1}, WMA (".wma")^{*1} and AAC (".m4a", ".3gp", ".mp4")^{*2} format can be played by this unit. Tracks in other formats cannot be played (page 39).
 - ^{*1} Tracks with copyright protection (Digital Rights Management) cannot be played by this unit. Tracks downloaded from Internet websites (including online music stores) may not be played by this unit.
 - ^{*2} Only audio files can be played by this unit. Movie files cannot be played.
- ➔ USB device formatted with file systems other than FAT16 or FAT32 are unsupported.^{*3}
 - ^{*3} This unit supports FAT16 and FAT32, but some USB device may not support all of these FAT. For details, see the operating manual of each USB device or contact the manufacturer.

- ➔ If you use partitioned USB device, only MP3, WMA and AAC tracks on the first partition can be played.
- ➔ Playback is possible up to 8 levels.
- ➔ The number of folders on the USB device has exceeded 1,000.
- ➔ The number of tracks on the USB device has exceeded 3,000.
- ➔ Files that are encrypted or protected by passwords, etc. cannot be played back.

Play Timer

“Set the clock first.” appears.

- ➔ If the clock on the unit has not been set, you cannot set the Play Timer. Set the clock before setting the Play Timer (page 23).

“Start and end times cannot be the same.” appears.

- ➔ The ending time for the Play Timer cannot be the same as the starting time.

Play Timer setting does not function when the starting time is reached. Play Timer setting does not end when the ending time is reached.

- ➔ A power failure occurred while the timer setting was in standby mode or the power cord was disconnected.
- ➔ The unit is being subjected to shocks or vibrations. Place the unit at a stable location.

Others

The unit works poorly.

- ➔ The unit may be under the influence of static electricity or other factors. In this case, restart the unit. If the unit still works poorly, reset the unit (page 62).
- ➔ If any warning message appears, do as the message says.

The unit does not respond to any operations. The unit does not work correctly.

- ➔ The unit's internal system may be malfunctioning, or the unit may be suffering from strong electrical noise caused by power supply abnormalities due to being dropped, excessive static electricity, or lightning. In this case, disconnect the power cord of the main unit and the remote control charger, wait about 30 seconds, and then reconnect them.

To reset the user-configured settings

This process clears all user-configured settings and information (e.g., preset radio stations, clock setting and network settings) to the factory default.

- 1 Disconnect and reconnect the power cord of the main unit, and then turn on the unit.
- 2 Select [Settings] from the Home menu.
- 3 Select [Common Setting] – [System Reset].
“Restore all settings to the factory default and reboot.” appears in the display.
- 4 Select [OK].

The system settings are reset. All user-configured settings, such as preset radio stations, timer settings, or the clock settings are deleted.

To cancel the resetting procedure

Select [Cancel] in step 4.

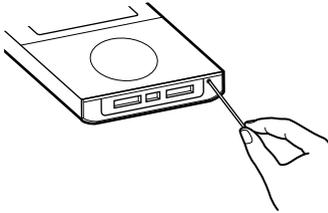
Note

You should never turn off the unit or disconnect the power cord during the resetting of the system.

To reset the unit

If the unit does not operate properly, you can reset it.

- 1** Find the symptoms of the issue in the Troubleshooting section, and try corrective actions listed.
- 2** Disconnect the power cord of the main unit from a wall outlet, wait about 30 seconds, and then connect it again.
- 3** Place the remote control on the charger.
You may be resolve some issues by charging the built-in battery.
- 4** Press the reset button with a small pin, etc. as shown below.



Messages

Loading (iPod)

The unit is reading information from the iPod.

LOCKED (CD)

The disc cannot be ejected. Contact your Sony dealer or local authorized Sony service facility.

No Disc (CD)

There is no disc in the unit, or you have loaded a disc that cannot be played.

Invalid operation.

The operation that you performed is invalid or currently prohibited.

Reading (CD/USB)

The unit is reading information from the disc or the USB device.

Precautions

On safety

- Completely disconnect the power cord (mains lead) from the wall socket (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
- Should any solid object or liquid get into the unit, unplug the unit, and have it checked by qualified personnel before operating it again.
- The AC power cord can be changed only by a qualified service facility.

On placement

- Do not place the unit in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- If the unit is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the lens inside the CD player, and cause the unit to malfunction. In this situation, remove the disc, and leave the unit turned on for about an hour until the moisture evaporates.

On heat buildup

- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not block the ventilation holes on the rear of this unit. Doing so will prevent the heat produced by the unit's amplifier to build up, which may cause the unit to malfunction. Make sure these holes are free from any obstruction.

When moving the unit

Do not move the unit while a CD is inserted. Doing so may damage the CD.

About AC power adaptor

- Use the AC power adaptor supplied with this unit. Do not use any other AC power adaptor since it may cause this unit to malfunction.



Polarity of the plug

- Connect the AC power adaptor or the power cord to an easily accessible AC outlet. Should you notice an abnormality in the AC power adaptor or the power cord, disconnect it from the AC outlet immediately.

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- If you are not going to use this unit for a long time, be sure to disconnect the power supply. To remove the AC power cord from the wall outlet, grasp the adaptor plug itself; never pull the cord.

On disposing of the remote control

Before disposing of the remote control, the built-in battery should be removed for environmental protection.

Notes

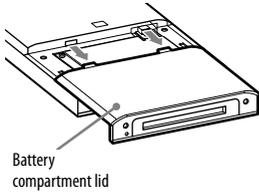
- Do not remove the screws at the bottom of the remote control except when disposing of the remote control.
- Before removing the built-in battery, make sure it has completely drained.

Do the following procedure to remove the built-in battery.

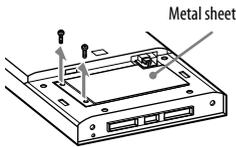
- 1 Remove the two screws at the bottom of the remote control.



- Slide and remove the battery compartment lid as shown below.



- Remove the two screws from the metal sheet. The battery is stored under the metal sheet.



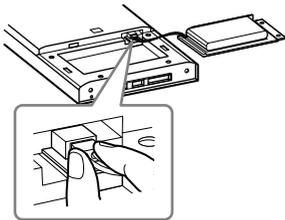
- Remove the metal sheet and the built-in battery. The battery is attached to the metal sheet by adhesive tape.

Note

Be careful not to hurt yourself when handling the metal sheet.



- Disconnect the cable that connects the battery to the remote control.



About this unit

- If you have connected to an outside network, such as the Internet, and have allowed access from other devices, unauthorized access by malicious outsiders can occur depending on your network configuration. It may cause damages such as data falsification. To avoid this problem, before using this unit, you need to:
 - Use a router and configure it correctly.
 - Register the equipment that is to access this unit.
- It is prohibited to send or leave copyrighted products to/on an out-of-home network which can be accessed from many people without the author's permission by the Copyright Act.
- About DLNA support: This product is designed in accordance with DLNA Guideline v1.0. This product is commercialized to gain formal DLNA accreditation. This product may be upgraded to maintain interconnectivity.

About the built-in battery in the remote control

- If the remote control loses its charge: A charged remote control will gradually lose its charge when it is not used for a long time. If it does, it may not be able to turn on the unit. If this happens, place the remote control on its charger to charge up the built-in battery. You should charge the remote control at least once every 6 to 12 months even when not using the unit.
- About the charging time and operating time of the remote control: The amount of time it takes to charge the remote control's built-in battery and the amount of time until it must be charged again depend on the surrounding temperature. If possible, you should avoid charging or operating the remote control in places subject to extremely high or low temperatures.

- About charging: If you remove the remote control from the charger before the built-in battery is fully charged, charging may not resume even if you place the remote control on the charger again. The operating time of the remote control will thus be shorter than it would normally be. Wait until the CHARGE indicator has turned off to ensure that the remote control is fully charged.

On the speaker system

This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

Do not drop this unit

- Do not subject the unit to strong shocks. It may cause the unit to malfunction.
- Do not exert strong pressure on the front side of this unit where the speakers are mounted.

On volume adjustment

CDs reproduce sound with considerably less noise than vinyl records. For this reason, if you raise the volume while listening to a segment containing only noise (as you might do in the case of a vinyl record), a sudden output of high-volume sound may cause damage to the speakers. Make sure to lower the volume before the start of playback.

Consideration for others

Keep the volume at a moderate level out of consideration of your neighbors, especially at night.

Notice for touch panel operations on the remote control

The touch panel of the remote control does not work properly when operated with:

- a gloved finger.
- two or more fingers.
- a finger nail.
- a wet finger.
- a pen, ballpoint pen, pencil, stylus, etc.
- touching other objects in addition to a finger.

About the display window on the remote control

Because data is being sent from the unit, the operating environment may cause a lag in the time the information appears on the remote control.

About lit and unlit dots in the LCD

You may notice some dots (red, blue, or green) in the liquid crystal display that do not turn off or do not turn on (black dots). These dots do not represent a malfunction. Because of the high precision of its technology, the LCD maintains an effective pixel count of 99.99% or more; however, there will be on rare occasions pixels that do not go on or that remain lit.

Cleaning the cabinet

Clean this unit with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as thinner, benzine, or alcohol.

Notes on CDs

- Do not scratch or attach stickers to the surface of the disc.
- CDs with non-standard shapes (e.g., a star, heart, or square) cannot be played on this unit. Attempting to do so may damage the unit.

- When cleaning the disc, use a cleaning cloth and wipe the disc from the center out to the edge. If the disc is extremely dirty, wipe the disc with a slightly moistened cloth, followed by a dry cloth. Do not clean a disc with a benzine thinner, commercial cleaners or anti-static sprays intended for vinyl LPs.
- Do not place discs in hot places, including places exposed to direct sunlight, near heat sources such as hot air ducts, or inside parked cars.
- Do not use a rental or second-hand disc on which glue that spread from under the label attached to it. If you do, there is a chance that the disc may become stuck to parts within the unit, causing it to malfunction.
- Do not use a commercial cleaning disc as it may cause the unit to malfunction.

Notes on playing MP3 discs

- This unit supports the MP3 format, a sampling rate of 32, 44.1, or 48 kHz and a bit rate of 32 to 320 kbps. If you play a disc recorded with a different sampling rate or bit rate on this unit, playback may stop, loud noises or sound skipping may occur, or the speakers may be damaged.
- If a file on a disc has an MP3 extension, but is not an MP3 file, the unit may skip that file or a malfunction may occur.
- This unit does not support files recorded in the MP3 Pro format.
- Under the following conditions, the actual elapsed time or the remaining time of an MP3 file may differ from the time displayed.
 - When playing a VBR (Variable Bit Rate) MP3 file
 - When performing a fast forward or fast rewind operation

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

About CDs

The unit CAN play the following discs

- Audio CDs:
- MP3 files:
CD-Rs and CD-RWs (recorded in a format conforming to the ISO 9660 Level 1 or 2, or Joliet standards). Multisession CDs are supported.

Notes

- When using a multisession disc with an audio CD format, only tracks recorded in the first session can be played.
- A disc with a mixed CD format is recognized as a CD-DA (audio) disc.
- Some CD-Rs or CD-RWs may not be played on this unit, depending on its characteristics and the recording conditions.
- CD-RWs may require some time before they begin to play. This is because they have a lower reflection index than other kinds of discs.
- In the case of discs containing more than 500 tracks of audio data, the unit will not recognize track 501 or above.
- Discs with many directories or a complicated structure may require some time before they start playing. When recording albums to a disc, it is recommended that recording will be done no deeper than the sub-directory 2 level.

Tip

For details on writing data to a disc, refer to the operating manual supplied with the CD-R/RW drive or software for burning data.

Specifications

Wireless LAN section

Compatible standards:

IEEE 802.11 b/g (WEP 64 bit/
WEP 128 bit/WPA-PSK TKIP/
WPA2-PSK AES)

Radio frequency:

2.4 GHz

Amplifier section

Power output (rated):

16 W + 16 W (at 8 Ω , 1 kHz,
1% THD)

RMS output power (reference):

20 W + 20 W (at 8 Ω , 1 kHz, 10
% THD)

CD player section

System:

Compact disc and digital audio
system

Laser Diode Properties:

Emission Duration: Continuous
Laser Output*1: Less than 1,000
 μ W

*1 This output is the value
measurement at a distance of
200 mm from the objective lens
surface on the Optical Pick-up
Block with 7 mm aperture.

Frequency response:

20 Hz - 20 kHz (\pm 0.5 dB)

Total harmonic distortion:

Less than 0.1 %

FM tuner section

Tuner:

FM stereo tuner

Frequency range:

87.5 MHz - 108.0 MHz (50 kHz
step)

Antenna:

FM wire antenna

Intermediate frequency:

10.7 MHz

AM tuner section

Tuner:

AM tuner

Frequency range:

531 kHz - 1,602 kHz (with the
interval set at 9 kHz)

Antenna:

AM loop antenna

Intermediate frequency:

450 kHz

DAB tuner section*

Tuner:

DAB stereo tuner

Antenna:

DAB wire antenna

Frequency range:

Band-III: 174.928 (5A) MHz
– 239.200 (13F) MHz

DAB frequency table (Band-III):

Frequency	Label
174.928 MHz	5A
176.640 MHz	5B
178.352 MHz	5C
180.064 MHz	5D
181.936 MHz	6A
183.648 MHz	6B
185.360 MHz	6C
187.072 MHz	6D
188.928 MHz	7A
190.640 MHz	7B
192.352 MHz	7C
194.064 MHz	7D
195.936 MHz	8A
197.648 MHz	8B
199.360 MHz	8C
201.072 MHz	8D
202.928 MHz	9A
204.640 MHz	9B
206.352 MHz	9C
208.064 MHz	9D
209.936 MHz	10A
211.648 MHz	10B
213.360 MHz	10C
215.072 MHz	10D
216.928 MHz	11A
218.640 MHz	11B
220.352 MHz	11C
222.064 MHz	11D
223.936 MHz	12A
225.648 MHz	12B
227.360 MHz	12C
229.072 MHz	12D

* For the UK model only

Frequency	Label
230.784 MHz	13A
232.496 MHz	13B
234.208 MHz	13C
235.776 MHz	13D
237.488 MHz	13E
239.200 MHz	13F

Inputs/Outputs

Antenna terminals:

FM:

75 Ω unbalanced

AM:

External antenna terminal

DAB*:

75 Ω unbalanced

AUDIO IN jack:

Stereo mini jack

Voltage 0.8 V

↔ (USB) connector:

USB type A for connecting USB devices

iPod dock:

Output voltage: DC 5 V

The maximum output current:

500 mA

PHONES jack:

Stereo mini jack

RF remote control

Compatible standards:

IEEE802.15.4

Radio frequency:

2.4 GHz

Battery charging time:

Approx. 3 hours (at normal temperature)

Operation time:

Approx. 5 hours (continuous operation at normal temperature)

Speaker

Speaker system:

2-way, bass-reflex type

Speaker units:

Woofers: 100 mm, cone type

Tweeters: 20 mm, soft dome type

Nominal impedance:

8 Ω

General

Power requirements:

The main unit:

230 V AC, 50/60 Hz

The remote control:

DC 5.2 V (supplied AC power adaptor)

Power consumption:

The main unit:

30 W (0.5 W or lower at the Power Save standby mode)

The remote control:

6.5 W

AC power adaptor for the

remote control:

Input: 100 V - 240 V AC, 50/60 Hz

Output: DC 5.2 V, 1.25 A

Dimensions (w/h/d) (including projecting parts and controls):

Approx. 535 mm × 220 mm × 196 mm

Mass:

Approx. 5.8 kg

Operating temperature:

+5 °C to +35 °C (+41 °F to +95 °F)

Operating humidity:

25 % to 80 %

Supplied accessories:

See page 8.

Optional accessory:

Wall-Mount bracket SU-WL100

Design and specifications are subject to change without notice.

- Standby power consumption : 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

* For the UK model only

iPod models that are compatible with this unit

You can use the following iPod models on this unit. Update your iPod with the latest software before using it.



iPod touch 2nd generation



iPod nano 4th generation (video)



iPod touch 1st generation



iPod nano 3rd generation (video)



iPod classic



iPod nano 2nd generation (aluminum)



iPod 5th generation (video)



iPod nano 1st generation



iPod 4th generation (color display)



iPod 4th generation



iPod mini

Installing the unit on the wall

The unit can be installed on the wall using the Wall-mount bracket SU-WL100 (not supplied).

To customers

Sufficient expertise is required for installing this product. Be sure to subcontract the installation to Sony dealers or licensed contractors and pay special attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation, or installing any other than the specified product. Your Statutory Rights (if any) are not affected.

To Sony Dealers

The following instructions are for Sony Dealers only. Be sure to read safety precautions and pay special attention to safety during the installation, maintenance and checking this product.

Before installing the unit on the wall

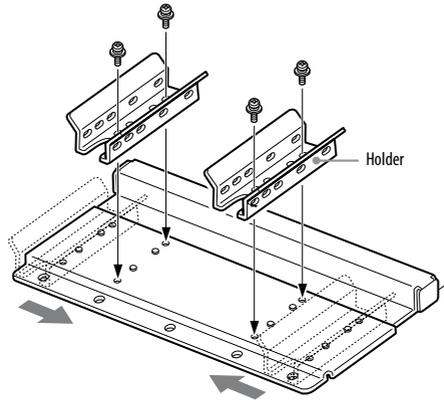
- Make sure that the wall is strong enough to support the wall mounting. The wall should be able to support the weight of at least 20 times that of this unit. See “Specifications” (page 67) for the weight of this unit.
- Make sure that the power cord is disconnected from the wall outlet.
- Make sure that the screws remain securely tightened during the assembly process, to avoid the unit from falling or causing an accident.

Safety information

- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
 - Wall-mount bracket SU-WL100
- It is strongly recommended that you use a Sony Wall-mount bracket in order to provide adequate air-circulation.

1 Adjust the position of the holders of the Base Plate.

- 1 Remove the screws that secure the left and right holders to the Base Plate and move the holders to the inner position.
- 2 Firmly secure each holder using the screws removed in the previous procedure 1.

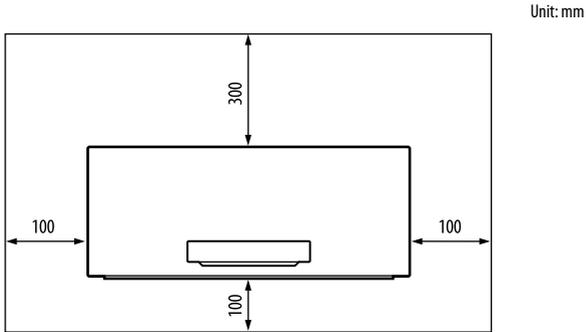


Note

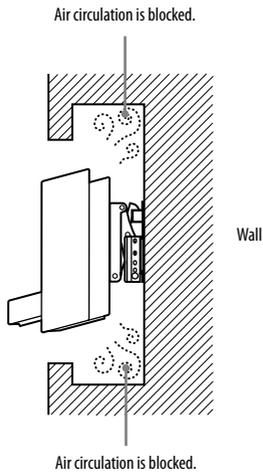
When using an electric screwdriver, set the torque setting to approximately 1.5 N·m (15 kgf·cm).

2 See “System installation dimensions diagram” (page 77), to determine the installation location.

Allow for suitable clearance between the unit, ceiling and any protruding wall parts as shown below.

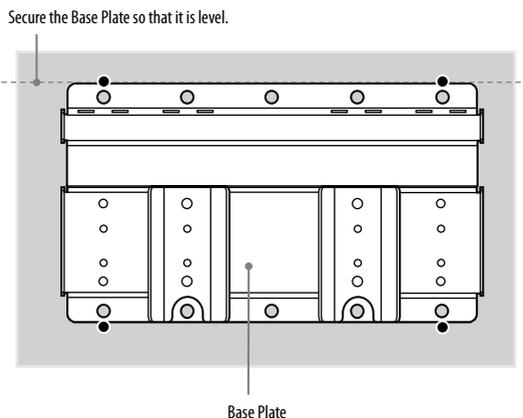


Never install the unit set as shown below:



3 Secure the Base Plate to the wall using 4 or more 6 mm diameter or equivalent screws (not supplied).

Select 4 screw holes with the ● mark shown in the diagram below and tighten the screws securely so that they will not become loose.

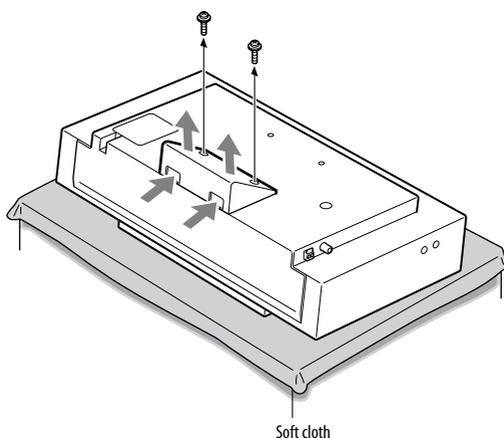


WARNING

- The screws required for this procedure are not supplied. Select screws suitable for the material and structure of the wall.
- If the Base Plate cannot be attached securely enough, use additional screws.
- Be sure to confirm that the Base Plate is securely attached to the wall.

4 Detach the stand from the unit.

- 1 Remove the 2 screws that secure the stand from the unit.
- 2 Push the 2 tabs located on the bottom of the stand, and pull up the stand to detach from the unit.

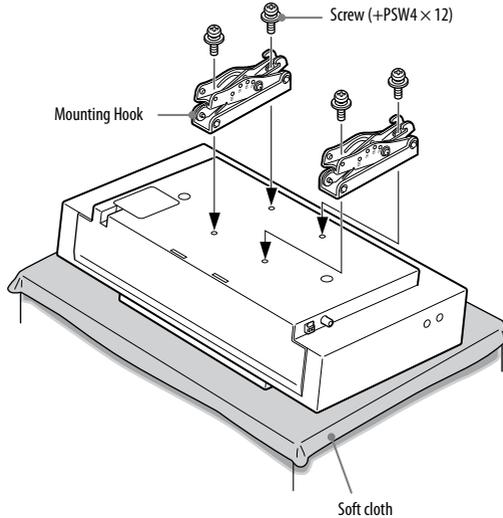


Note

Do not remove the stand for any reason other than to wall-mount the unit.

5 Secure the two Mounting Hook to the rear of the unit.

- 1 Secure the Mounting Hook to the rear of the unit temporarily, using the 4 screws (+PSW4 × 12) supplied with the Wall-mount bracket SU-WL100.
- 2 Be sure that screws are tightened securely with equal torque strength to the rear of the unit.



CAUTION

- Be sure not to use any screws other than the ones supplied (+PSW4 × 12) when securing the Mounting Hook.
- Make sure that the Mounting Hook angle is set at 0 degrees, and install the unit parallel to the wall. Do not adjust the Mounting Hook angle.

6 Connect the cable(s) to the unit.

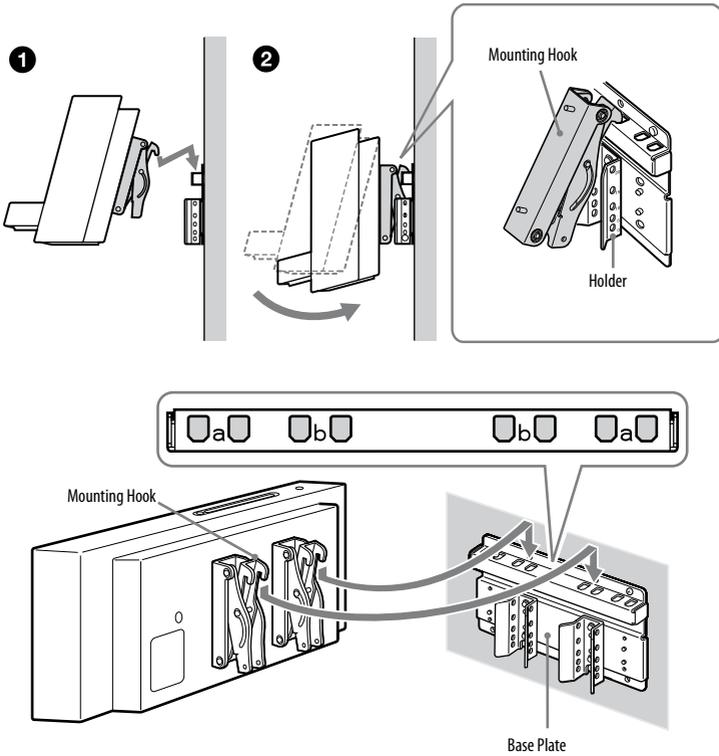
Connect the cable(s) to the connectors on the unit. For details on cable(s), refer to “Connecting the antennas and power cord (main unit)” (page 13).

WARNING

Be careful not to stumble over the power cord or connecting cable(s), as you may hurt yourself.

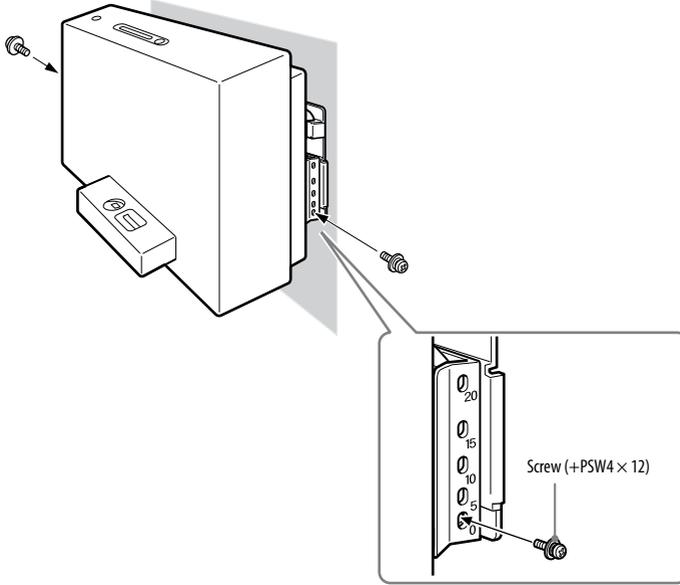
7 Install the unit onto the Base Plate.

- 1 Determine the holes of the Base Plate for latching the upper hooks of the Mounting Hook.
- 2 Hold the unit securely with both hands, and gently align it on the wall.



8 Firmly secure the unit and the Base Plate using the 2 supplied screws (+PSW4 × 12).

Secure the screws to the angle mark 0.



Note

When using an electric screwdriver, set to torque setting to approximately 1.5N·m (15 kgf·cm).

WARNING

Be sure to tighten both left and right securing screws firmly. If you fail to do so, the unit may fall when it is pushed upward and cause injury.

9 Confirm the completion of the installation.

Check the following points.

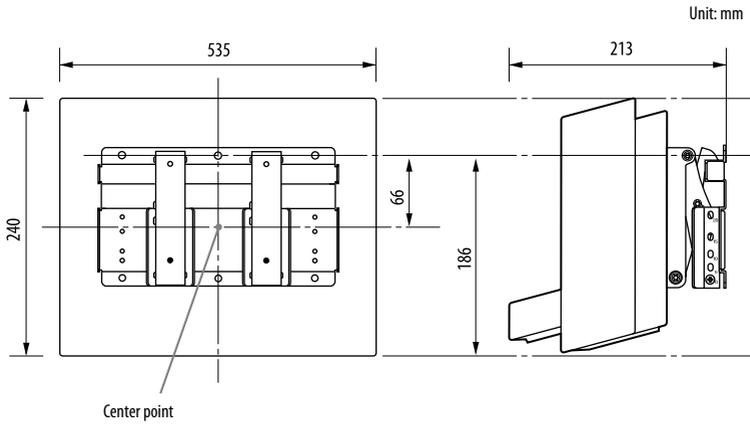
- The hooks of the Mounting Hook are firmly latched in the holes of the Base Plate.
- The power cord is not twisted or pinched.
- The 2 screws that secure the Mounting Hook and the Base Plate are securely tightened.

WARNING

Do not adjust the angle of the Mounting Hook when the unit is installed on the wall and be sure that the Mounting Hook is fully engaged. Otherwise it may cause the product to fall and result in injury and/or product damage. Also, improper placement of the power cord, etc., may cause fire or electric shock through a short circuit. Be sure to confirm the completion of the installation for safety.

System installation dimensions diagram

The diagram below shows the dimensions of the unit that is mounted on the Wall-mount bracket SU-WL100. Refer to the diagram below to determine the installation location.



Figures in the above diagram may differ slightly depending on the installation.

Glossary

AOSS

AOSS is an abbreviation of “AirStation One-Touch Secure System”. AOSS is a technology developed by BUFFALO that simplifies connections and settings for wireless network.

Bit rate

The bit rate is a measure of data volume expressed in bits per second (bps).

Broadband

General name for communication lines that use a broad frequency bandwidth for sending and receiving large amounts of video or audio data at high speed. Currently, ADSL, CATV, FTTH and other systems are identified as broadband.

Broadband router

For Internet connections through ADSL or a cable TV line, devices called ADSL modems or cable modems are used. However, for Internet access from multiple terminals connected at once, a broadband router is used.

Byte

One of the fundamental units used to express digitized data in computers. Digitized data is commonly expressed in binary digits (zeros and ones). A single unit of data is one bit. One byte consists of eight bits.

Condensation

Condensation can occur in the unit when there is a rapid rise in temperature, as when a heater is turned on. If condensation occurs, keep the unit turned off until the moisture evaporates.

DHCP

Abbreviation of Dynamic Host Configuration Protocol. A system for automatically allocating configuration data required for an Internet connection.

DLNA

Abbreviation of Digital Living Network Alliance. The DLNA is a nonprofit organization that establishes design guidelines for digital content shared over networks. For details, see <http://www.dlna.org/en/consumer/home>

DNS

Abbreviation of Domain Name System. A server that translates domain names to IP addresses, or IP addresses to domain names. A DNS is identified by an IP address. Also called a “DNS server”.

ID3

ID3 is information (such as the track name or artist name) that is recorded in an MP3 file. The ID3 tag is used by this unit to display track information for MP3 files.

Internet Service Provider

A company that offers a connection service to the Internet.

IP address

IP addresses usually comprise four groups of up to three digits each, separated by a period (such as 192.168.239.1). All devices on a network must have an IP address.

ISO9660

A standard of the International Organization for Standardization (ISO) that defines the file system of CD-ROM media.

LAN

Abbreviation of Local Area Network. LAN is a general name for networks set up for communication among devices including computers, printers, and fax machines in relatively small areas such as offices or buildings.

MP3

Abbreviation of MPEG-1 Audio Layer3. It is a standard for audio file compression determined by the MPEG (Motion Picture Experts Group), an ISO (International Organization for Standardization) working group. It enables compression of audio files to about 1/10 of the data size of a standard compact disc. Since the MP3 encoding algorithm is disclosed, there are various encoders/decoders that are compliant with this standard. The MP3 standard is therefore widely used in the computer field.

Network key (security key)

An encryption key used to limit the devices with which communication can occur. It is used to provide higher security for devices communicating via a wireless LAN router/wireless LAN access point.

Proxy

A program or a server that provides Internet access to computers within a firewall or quicker downloading of web pages.

Router

A device that bridges networks, converting the protocols and addresses of each network. Recently, dial-up routers for connecting to ISDN lines and broadband routers for ADSL and CATV networks have been introduced. The term "router" by itself may refer to any of these devices.

S-IWS

S-IWS is an abbreviation of Sony Instant Wireless Audio Setup. Instant (S-IWS) connection allows you to set up a wireless network easily.

SSID

Abbreviation of Service Set Identifier. It is a name that identifies a particular access point within an IEEE 802.11 wireless LAN. To connect with an access point, a client device must be set with the same SSID. SSIDs can be up to 32 characters long. For higher security, a network key is normally also used. In this case, connection cannot occur unless the SSID matches the network key.

USB storage

In this manual, USB storage refers to a mass storage device that supports the USB Mass Storage Class standard. These devices, such as a USB audio player, can be connected to the USB jack on the unit or a computer and used as a removable mass storage device.

WEP

Abbreviation of Wired Equivalent Privacy. An encryption key used in wireless LAN networks. As an IEEE standard based on the RC4 algorithm cryptography, WEP is used to secure IEEE 802.11b wireless networks. During the transmission of a message between a wireless LAN access point and a client device, the sending side encrypts the data and the receiving side decrypts it. For communication to occur, both devices must use a common code key, which is called the "WEP key". The encryption level is indicated by the bit count of the key; e.g., 64 bits or 128 bits. The higher the bit count, the higher the security level.

WMA

Abbreviation of Windows Media Audio. WMA is the audio compression technology developed by Microsoft Corporation that allows audio files to be compressed to about 1/22 of the data size of a standard compact disc.

WPA

Abbreviation of Wi-Fi Protected Access. An encryption standard for wireless LAN networks created by the Wi-Fi Alliance to remedy a number of serious security problems in the WEP system. In addition to the network name (SSID) and encryption key (WEP), this protocol uses a user authentication framework called "EAP" (Extensible Authentication Protocol) and a protocol called "TKIP" (Temporal Key Integrity Protocol) which automatically updates the encryption code at regular intervals for higher security.

WPA2

Abbreviation of Wi-Fi Protected Access 2. An encryption standard for wireless LAN networks. As an upgraded version of WPA created by the Wi-Fi Alliance, this standard uses AES (Advanced Encryption Standard) cryptography to provide stronger security than WPA.

DAB (Digital Audio Broadcasting)-related terms (UK model only)

Dynamic label segment

The text data transmitted for each channel or service.

Ensemble label

In DAB, multiple digital radio channels are transmitted using a single radio transmission or frequency. A group of channels sent this way is called an "ensemble" and "ensemble label" is the name of such a group.

Service label

The name of an individual digital radio channel or service.

List of input characters

A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z a b c d
e f g h i j k l m n o p q r s t u v w
x y z 0 1 2 3 4 5 6 7 8 9 ! " # \$ %
& ' () * + , - . / : ; < = > ? @ [\]
^ _ ` { } ~

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WPA Supplicant

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MP3



<http://www.sony.net/>