SONY

4-471-163-**13** (1)

Personal Audio System

Operating Instructions

GTK-N1BT

http://www.sony.net/

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GB

WARNING

To reduce the risk of fire, do not cover the ventilation opening of the appliance with newspapers, tablecloths, curtains, etc. Do not expose the appliance to naked flame sources (for example, lighted candles).

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

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

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.

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.

Do not expose batteries or appliances with battery-installed to excessive heat, such as sunshine and fire.

This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection cable shorter than 3 meters.

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

This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative, Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

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 in Australia and New Zealand

This equipment should be installed and operated with at least 20 cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles).

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.

Europe Only

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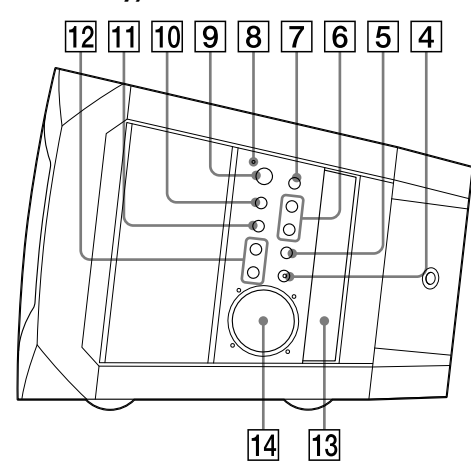oint for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

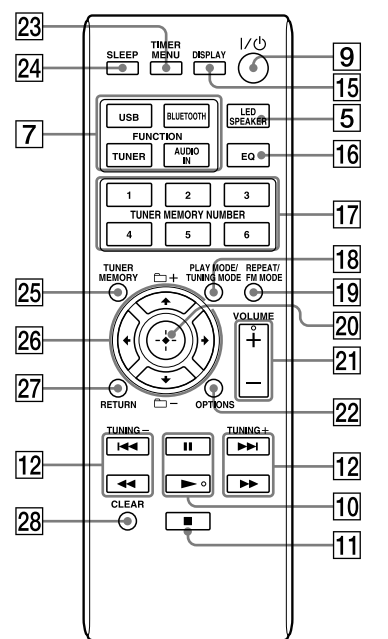---

Location of Controls

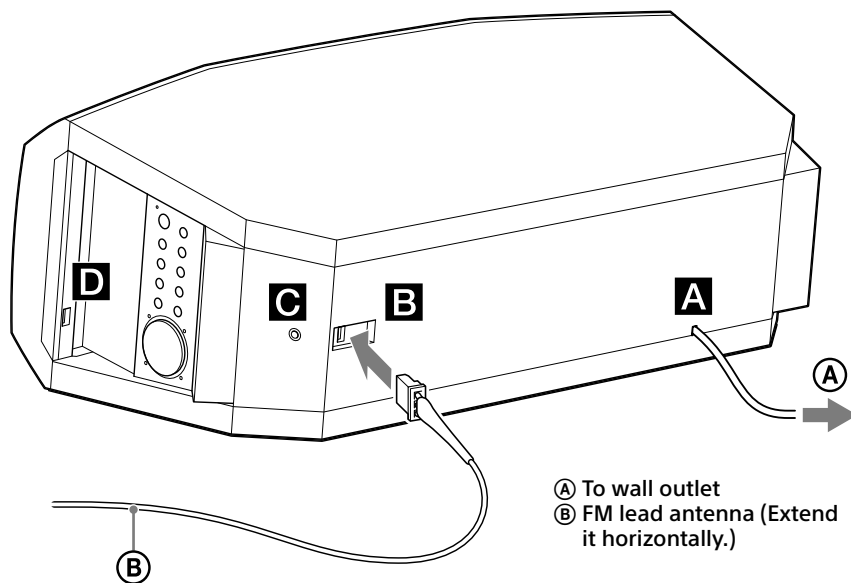## Unit (Front)
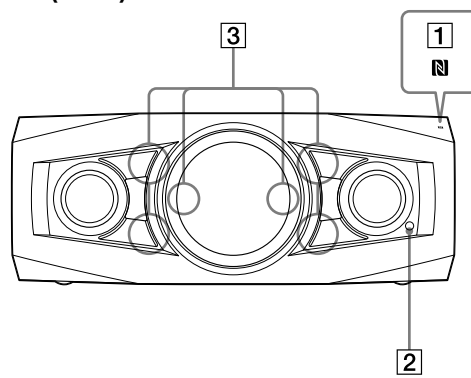
Unit (Right side when installed horizontally)

Note
Headphone output is not available as this system does not have a headphone jack.

Remote

Notes on using the remote
- With normal use, the batteries should last for about 6 months.
- Do not mix an old battery with a new one or mix different types of batteries.
- If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.

Getting Started

Ⓐ To wall outlet
Ⓑ FM lead antenna (Extend it horizontally.)

Ⓐ Power
Connect the power cord Ⓐ to a wall outlet.
The demonstration appears in the display ⅓. When you press I/⏻ ⑨, the system turns on and the demonstration automatically ends.
If the supplied adaptor on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adaptor).

Ⓑ Antenna
When inserting the connector of FM lead antenna Ⓑ, make sure to insert it in the correct orientation.
Find a location and an orientation that provide good reception when you set up the antenna.
Keep the antenna away from the power cord to avoid picking up noise.

Ⓒ AUDIO IN (external input) jack
Connect optional external equipment using an audio connecting cable (not supplied).
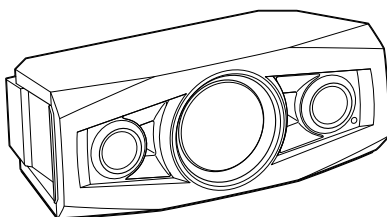
Ⓓ USB port
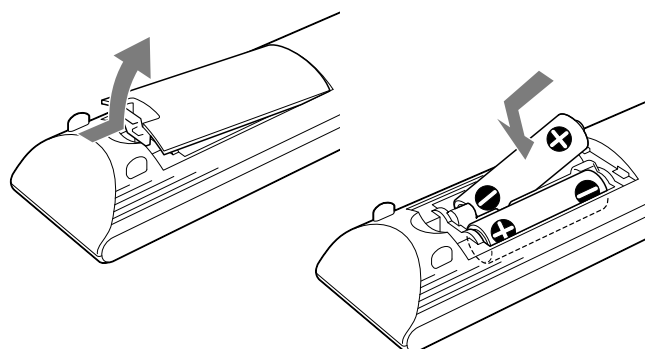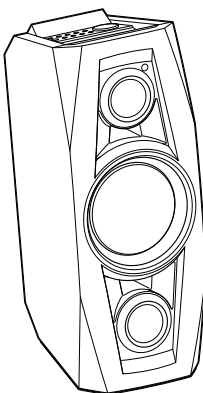Connect an iPod/iPhone or USB device using a USB cable (not supplied).

Installing the system

The system can be installed either vertically or horizontally. Select the installation style based on your preferences.

Horizontal installation   Vertical installation

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Using the remote

Insert the two R6 (size AA) batteries (supplied), matching the polarities shown below.

Setting the clock

1 Press I/⏻ ⑨ to turn on the system.
2 Press TIMER MENU ㉓ to select the clock set mode.
   If "PLAY SET" flashes, press ♦/♦ ㉖ repeatedly to select "CLOCK," and then press ⊕ (enter) ⑳.
3 Press ♦/♦ ㉖ repeatedly to set the hour, then press ⊕ ⑳.
4 Use the same procedure to set the minutes.

Note
The clock settings are reset when you disconnect the power cord or if a power failure occurs.

To display the clock when the system is off
Press DISPLAY ⑮. The clock is displayed for about 8 seconds.

Operations

Using the BLUETOOTH function

You can listen to music from your "WALKMAN" or BLUETOOTH device over a wireless connection. Before using the BLUETOOTH function, perform pairing to register your BLUETOOTH device.

The system supports registration and connection of the BLUETOOTH device and NFC, which enables data communication by just touching a specified location. For details on NFC, see "Connecting by one-touch action (NFC)."

What is pairing?
The BLUETOOTH devices to be connected must be registered with each other beforehand. Pairing is an operation of registering two devices. Once a pairing operation is performed, it does not have to be performed again. In the following cases, however, a pairing operation must be performed again:
- Pairing information was erased when the BLUETOOTH device was repaired.
- You attempt to pair the system with more than 10 BLUETOOTH devices. This system can pair with up to 9 BLUETOOTH devices. If you pair another BLUETOOTH device after pairing with 9 devices was performed, pairing information of the device that was connected with the system first is overwritten with that of the new device.
- Pairing registration information of this system is erased from the connected device.
- If you initialize the system or erase the pairing history with the system, all the pairing information will be erased.

About the BLUETOOTH indicator
The BLUETOOTH indicator in the center of the BLUETOOTH button ④ allows checking the BLUETOOTH status.

System status	Indicator status
The system is in BLUETOOTH Standby (when the system is on).	Flash slowly in blue.
During BLUETOOTH pairing	Flash quickly in blue.
The system is attempting to connect with a BLUETOOTH device.	Flash in blue.
The system has established in connection with a BLUETOOTH device.	Lit in blue.

Enabling reception of AAC codec
You can receive data in AAC codec format from a BLUETOOTH device. To enable reception, set up using the option menu.

1 Press BLUETOOTH FUNCTION ⑦ on the remote or press BLUETOOTH ④ on the unit until "BT AUDIO" appears in the display ⅓.
2 Press OPTIONS ㉒ to display the setting menu.
3 Press ♦/♦ ㉖ repeatedly to select "BT AAC," then press ⊕ ⑳.
4 Press ♦/♦ ㉖ repeatedly to select "ON" or "OFF," then press ⊕ ⑳.
   ON: to enable reception in AAC codec format
   OFF: to receive in SBC or aptX codec format

Notes
- If you initiate setup during BLUETOOTH connection, the connection is cut.
- When using an Apple product, update it to the latest software version. For details on updating, refer to the operation manual supplied with your Apple product.
- If sound is interrupted during reception in AAC codec format, set the BT AAC menu to "OFF."

Pairing this system with a BLUETOOTH device

BLUETOOTH device such as a "WALKMAN"

1 Place the BLUETOOTH device to be connected within 1 meter from the system.
2 Press BLUETOOTH FUNCTION ⑦ on the remote or press BLUETOOTH ④ on the unit until "BT AUDIO" appears in the display ⅓.
   - The BLUETOOTH indicator ④ flashes slowly in blue.
   - If the system has been automatically connected with the BLUETOOTH device in the past, press BLUETOOTH ④ on the unit to cancel the connection so that "BT AUDIO" appears in the display ⅓.
3 Press and hold BLUETOOTH ④ on the unit for 2 seconds or longer.
   The BLUETOOTH indicator ④ flashes quickly in blue and "PAIRING" flashes in the display ⅓. The system is in Pairing mode.

4 Perform the pairing operation on the BLUETOOTH device and search for this system with the BLUETOOTH device.
   When searching has finished, a list of the devices found may appear on the BLUETOOTH device display.
   - This system appears as "SONY:GTK-N1BT." If it does not appear, perform the procedure from step 1 again.
   - When establishing connection with this system, select the audio profile (A2DP, AVRCP) on the BLUETOOTH device.
   - If the BLUETOOTH device does not support AVRCP (Audio Video Remote Control Profile), you cannot perform playback or other operations with the system.
   - For details on operations of the BLUETOOTH device to be connected, refer to the operation manual supplied with your BLUETOOTH device.
5 Select "SONY:GTK-N1BT" in the display of the BLUETOOTH device.
   If prompted to enter a passkey on the BLUETOOTH device, enter "0000."
6 Operate the BLUETOOTH device and perform BLUETOOTH connection.
   When pairing is completed and connection with the BLUETOOTH device is established correctly, the display ⅓ changes to "BT AUDIO" from "PAIRING" and the BLUETOOTH indicator ④ flashes slowly in blue.
   - Depending on the type of BLUETOOTH device, connection may start automatically after pairing is completed.

Notes
- "Passkey" may be called "Passcode," "PIN code," "PIN number" or "Password," etc., depending on the device.
- The pairing standby status of the system is cancelled after about 5 minutes. If pairing is not successful, perform the procedure from step 1.
- If you want to pair with several BLUETOOTH devices, perform the procedure from steps 1 to 6 individually for each BLUETOOTH device.

Tip
You can perform a pairing operation or attempt to make a BLUETOOTH connection with another BLUETOOTH device while the BLUETOOTH connection is established with one BLUETOOTH device. The currently established BLUETOOTH connection is cancelled when BLUETOOTH connection with another device is successfully established.

To erase the pairing registration information

1 Press BLUETOOTH FUNCTION ⑦ on the remote or press BLUETOOTH ④ on the unit until "BT AUDIO" appears in the display ⅓.
   When the system is connected with a BLUETOOTH device, the device name set for the connected BLUETOOTH device appears in the display ⅓ of the system. Press BLUETOOTH ④ on the unit to cancel the connection with that BLUETOOTH device then display "BT AUDIO."
2 Press CLEAR ㉘.
   "DEL LINK" flashes.
3 Press ⊕ ⑳.
   "COMPLETE" appears and all the pairing information is erased.

Notes
- If you erase the pairing information, you cannot make a BLUETOOTH connection unless pairing is performed. In order to connect with a BLUETOOTH device after performing this operation, you must enter the passkey again.
- If you erase the pairing information, the BLUETOOTH Standby mode setting is set to off.

Connecting by one-touch action (NFC)
NFC enables data communication by just touching your device to a specified location.
Compatible smartphones are those equipped with the NFC function (compatible operating system: Android version 2.3.3 or later with the exception of Android 3.x).
Check the website below for information on compatible devices.
For customers in Europe:
http://support.sony-europe.com/
For customers in Latin America:
http://www.sony-latin.com/index.crp
For customers in other countries/regions:
http://www.sony-asia.com/support

Preparation on your smartphone (Android)
An NFC-compliant application must be installed on your smartphone. If not installed, you can download "NFC Easy Connect" from Google Play.
- In some countries and regions, NFC-compliant application may not be downloaded.
- For some smartphones, this function may be available without downloading "NFC Easy Connect." In this case, the operation and specifications of the smartphone may be different from the description in this manual.

1 Install the application.
   If you access using 2D Code
   Use the 2D Code Reader application.

If the application is not found at the website above, search "NFC Easy Connect" on Google Play and install it.

2 Set your smartphone to enable NFC function.
   For details, refer to the user's guide supplied with your smartphone.

About the "NFC Easy Connect" application
This is a free application especially used for Android. Search the internet for detailed information on "NFC Easy Connect" and download the application.
- In some countries and regions, NFC-compliant application may not be downloaded.

Making a connection with your smartphone by one-touch action
Just touch your smartphone to the system. The system is turned on automatically, and pairing and BLUETOOTH connection are established.

1 Start the "NFC Easy Connect" application on your smartphone.
   Check that the application display appears.
2 Touch your smartphone to the unit.
   Touch the smartphone to the N-Mark ① on the unit and maintain contact until the smartphone vibrates.
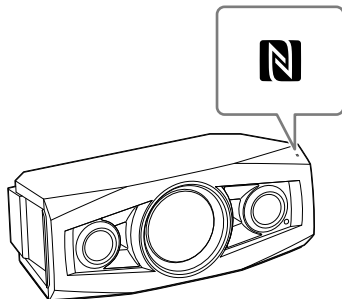
Complete the connection with your smartphone, following the instructions on the screen.

Refer to the user's guide of your smartphone for the part of your smartphone used touch contact.

- To disconnect the established connection, touch your smartphone to the N-Mark ① on the unit.
- When you touch an NFC-compliant smartphone to the unit while another BLUETOOTH device is connected with this system, the BLUETOOTH device is disconnected and the system is connected with the smartphone.
- If you touch the smartphone connected with this system to another NFC-compliant BLUETOOTH headset or speaker, the smartphone is disconnected from the system and connected with the touched BLUETOOTH device.

Listening to music through a BLUETOOTH connection
You can operate a BLUETOOTH device by connecting the system and a BLUETOOTH device using AVRCP.
Check the following before playing music:
- The BLUETOOTH function of the BLUETOOTH device is enabled.
- Pairing has been completed.

1 Press BLUETOOTH FUNCTION ⑦ on the remote or press BLUETOOTH ④ on the unit until "BT AUDIO" appears in the display ⅓.
2 Establish BLUETOOTH connection with the BLUETOOTH device.
   Once the connection is established, "LINKED" appears in the display ⅓ then the BLUETOOTH device name set with the BLUETOOTH device appears.
   If the BLUETOOTH device has been connected with this system in the past, it may be connected automatically with no user operation required.
3 Press ► ⑩ on the remote or ►❙❙ ⑩ on the unit to start playback.
   Depending on the BLUETOOTH device, you may have to press ► ⑩ or ►❙❙ ⑩ twice.
   Depending on the BLUETOOTH device, you may have to start up the AV software of the BLUETOOTH device beforehand.
4 Press VOLUME +/– ㉑ on the remote or turn the volume dial ⑭ on the unit to adjust the volume.

Other operations

To	Do the following:
Pause playback	Press ►❙❙ ⑩ on the remote or ►❙❙ ⑩ on the unit.*
Stop playback	Press ■ ⑪.
Select a folder	Press ⊏⊐ +/– ㉖ (⊏⊐ +/– ⑥ on the unit).
Select a file	Press ❙◄◄ / ►►❙ ⑫
Find a point in a file	Hold down ◄◄ / ►► ⑫ (or ❙◄◄ / ►►❙ ⑫ on the unit) during playback and release the button at the desired point.

* Depending on the BLUETOOTH device, you may have to press ►❙❙ ⑩ on the unit twice.

Note
These operations may not be available for certain BLUETOOTH devices. In addition, the actual operations may differ depending on the connected BLUETOOTH device.

To check the address of a connected BLUETOOTH device
Press DISPLAY ⑮ while the BLUETOOTH device name set on the connected BLUETOOTH device is shown in the display ⅓. The BLUETOOTH device address appears in two installments on the system display for 8 seconds.

To cancel the connection with a BLUETOOTH device
Press BLUETOOTH ④ on the unit. "UNLINKED" appears in the display ⅓.
Depending on the BLUETOOTH device, the connection may be cancelled automatically when you stop playback.

Setting the BLUETOOTH Standby mode
When BLUETOOTH Standby mode is enabled, the system enters Wait mode for BLUETOOTH connection even when the system is turned off.
If the system receives a playback command from the connected BLUETOOTH device, it turns on and music is played back. The BLUETOOTH Standby mode is disabled by default.

1 Press BLUETOOTH FUNCTION ⑦ on the remote or press BLUETOOTH ④ on the unit until "BT AUDIO" appears in the display ⅓.
2 Press OPTIONS ㉒ to display the setting menu.
3 Press ♦/♦ ㉖ repeatedly to select "BT STBY," then press ⊕ ⑳.
4 Press ♦/♦ ㉖ repeatedly to select "ON" or "OFF," then press ⊕ ⑳.
5 Press I/⏻ ⑨ to turn off the system.
   When "BT STBY" is set to "ON," the system turns on and you can listen to music by activating BLUETOOTH on the connected component.

App Remote via BLUETOOTH wireless technology (Android phone)
Downloading the "App Remote" application from Google Play is required for Android phone.
If the application is downloaded to an Android phone connected to the unit, the following features are available:
- Operate the unit to launch and control compatible applications on Android phone.
- Operate Android phone with simple finger gestures to control the source of the unit.
- Display detailed source information (song title, artist name, album art, etc.) on Android phone.
- Read out incoming text messages/SMS automatically.
Available operations differ depending on the application. For details on available applications, visit the support site below:
For customers in Europe:
http://support.sony-europe.com/
For customers in Latin America:
http://www.sony-latin.com/index.crp
For customers in other countries/regions:
http://www.sony-asia.com/support

To install the application
If you access using 2D Code
Use the 2D Code Reader application.

If the application is not found at the website above, search for "App Remote" on Google Play and install it.

Notes
- The "App Remote" application via the BLUETOOTH function is only available for Android phones with Android 2.2, 2.3, 4.0 or 4.1 installed.
- Automatic reading of the SMS function is only available for Android phones with TTS Engine installed.

Two-way music control with Android phone
Before connecting the mobile device, turn down the volume of the unit.

1 Connect this unit and the mobile device via the BLUETOOTH function.
2 Start up the "App Remote" application.
   If the function of the unit does not appear on the application, press and hold BLUETOOTH ④ on the unit for more than 2 seconds.
   Some playback operations of the unit can be controlled by the mobile device. For details on the operations on the mobile device, see the help of the application.

Playing a file of the USB device

The audio format that can be played back on this system is MP3/WMA*/AAC*/WAV.

* Files with DRM (Digital Rights Management) copyright protection or files downloaded from an online music store cannot be played on this system. If you try to play one of these files, the system plays the next unprotected audio file.

Check the websites below for the information about compatible USB devices.

For customers in Europe:
http://support.sony-europe.com/
For customers in Latin America:
http://www.sony-latin.com/index.crp
For customers in other countries/regions:
http://www.sony-asia.com/support

1 Press USB FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "USB" appears in the display 13.

2 Connect the USB device to the USB port D on the unit.
   If the system does not recognize the USB device, disconnect the USB device and reconnect it.

3 Press ▶ 10 on the remote or ▶II 10 on the unit to start playback.

Other operations

To	Press
Pause playback	Press ▶II 10 on the remote or ▶II 10 on the unit. To resume play, press the button again.
Stop playback	■ (stop) 11. To resume play, press ▶ 10 on the remote or ▶II 10 on the unit.*1 To cancel resume play, press ■ 11 again*2.
Select a folder	🗁 +/− 28 or 🗁 +/− 6 on the unit) repeatedly.
Select a file	I◀◀ (go back)/▶▶I (go forward) 12.
Find a point in a file	Hold down I◀◀ (rewind)/▶▶I (fast forward) 12 (I◀◀/▶▶I 12 on the unit) during playback, and release the button at the desired point.
Select Repeat Play	REPEAT 19 repeatedly until "⟲" (repeat all tracks) or "⟲1" (repeat one file) appears.

*1 When playing a VBR MP3/WMA file, the system may resume playback from a different point.
*2 Resume play returns to the top folder.

To change the play mode
Press PLAY MODE 18 repeatedly. You can select Normal Play mode (playback in sequence of all files on the USB device), Folder Play mode ("FLDR" for all files in the specified folder on the USB device), or Shuffle Play mode ("SHUF").

Notes on the play mode
- When you select Shuffle Play mode "SHUF," the system shuffle-plays all audio files on the connected USB device in random order. Shuffle Play mode may play the same file repeatedly.
- When the play mode is set to Folder Play mode, "⟲1" is not available.
- When the play mode is set to Shuffle Play mode, the repeat function is not available.
- When repeat play is set, Shuffle Play mode is not available. When repeat play is set to "⟲1," Folder Play mode is hot available.
- When you turn off the system, the selected Shuffle Play mode ("SHUF") is cleared and the play mode returns to Normal Play mode.

Note on Repeat play
If you select "⟲" when the system is in Normal Play mode, the system executes repeat play of all audio files on the USB device until you stop playback. If you select "⟲1" when the system is in Folder Play mode, the system executes repeat play of all audio files in the selected folder until you stop playback.

Notes
- When USB cable connection is necessary, connect the USB cable supplied with the USB device. See the operation 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 connect the system and the USB device through a USB hub.
- When the USB device is connected, the system 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.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- Compatibility with all encoding/writing software cannot be guaranteed. If audio files on the USB device were originally encoded with incompatible software, those files may produce noise or interrupted sound, or may not be played back at all.
- This system cannot play audio files on the USB device in the following cases;
  —when the total number of audio files in a folder exceeds 256.
  —when the total number of audio files on a USB device exceeds 65,536.
  —when the total number of folders on a USB device exceeds 256 (including the "ROOT" folder and empty folders).
  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.
- The system can play back to a depth of 8 folders only.
- This system does not necessarily support all the functions provided with a connected USB device.
- Resume play will be cancelled when you disconnect the power cord.
- Folders that have no audio files are skipped.
- The audio formats that you can listen to with this system are as follows:
  —MP3: file extension ".mp3"
  —WMA: file extension ".wma"
  —AAC: file extension ".m4a"
  —WAV: file extension ".wav"

Note that even when file name has the correct file extension, if the actual file differs, the system may produce noise or may malfunction.
- Disconnect the USB device after stopping playback.

To use the system as a battery charger
You can use the system as a battery charger for USB devices that have a rechargeable function when the system is on.
Press USB FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "USB" appears in the display 13.
The charging begins when the USB device is connected to the USB port D. The charge status appears on the USB device display. For details, see the user's guide of your USB device.

Playing the iPod/iPhone

1 Press USB FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "USB" appears in the display 13.

2 Connect the iPod/iPhone to the USB port D on the unit using the USB cable supplied with the iPod/iPhone.
   "USB" in the display 13 changes to "iPod." If the display does not change to "iPod," disconnect the iPod/iPhone and reconnect it.

3 Press ▶ 10 on the remote or ▶II 10 on the unit to start playback.

To control the iPod/iPhone

To	Press
Pause playback	Press ▶II 10 on the remote or ▶II 10 on the unit.
Stop playback	■ (stop) 11.
Select a track or chapter of audiobook/podcast	I◀◀ (go back)/▶▶I (go forward) 12.
Find a point in a track or chapter of audiobook/podcast	Hold down I◀◀ (rewind)/▶▶I (fast forward) 12 (I◀◀/▶▶I 12 on the unit) during playback, and release the button at the desired point.

To use the system as a battery charger
You can use the system as a battery charger for an iPod/iPhone when the system is on.
Press USB FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "USB" appears in the display 13.
Connect the iPod/iPhone to the USB port D when the iPod/iPhone player is stopped, and the charging begins. The charging status appears on the iPod/iPhone display.
For details, see the user's guide of your iPod/iPhone.

To stop charging an iPod/iPhone
Remove the iPod/iPhone.

Note on charging an iPod/iPhone
You cannot charge the iPod/iPhone when the system is off. Some iPod/iPhone may not be charged owing to their characteristics.

Notes
- Turn the "Shake to Shuffle" function off on the iPod/iPhone to avoid unexpected track changes when listening to music at high volumes.
- If the battery of the iPod/iPhone is empty, the system may not recognize it. In such a case, recharge it with a computer, etc. then connect it to the system.
- The performance of the system may vary, depending on the specifications of your iPod/iPhone.
- Hold down I◀◀/▶▶I 10 to fast-rewind (or fast-forward) while playing video if ◀◀/▶▶ 12 does not function.
- To change the volume, press VOLUME +/− 21 on the remote or turn the volume dial 14 on the unit. The volume level does not change if you adjust it on the iPod/iPhone.
- To use an iPod/iPhone, refer to the user's guide of your iPod/iPhone.
- Sony cannot accept responsibility in the event that data recorded to iPod/iPhone is lost or damaged when using an iPod/iPhone with this system.

Listening to the radio

1 Press TUNER FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "FM" appears in the display 13.

2 Perform tuning.

For automatic scanning
Press TUNING MODE 18 repeatedly until "AUTO" appears, and then press TUNING +/− 12. Scanning stops automatically and "ST" (for stereo programs only) light up in the display 13 when a station is found.

```
ST     8750
```

The scanning does not stop, press ■ 11 to stop scanning, then perform manual tuning (below).
When you tune to an FM station that provides RDS services, information such as the service name or station name is provided by broadcasts.

For manual tuning
Press TUNING MODE 18 repeatedly until "MANUAL" appears, and then press TUNING +/− 12 repeatedly to tune to the desired station.

Tip
To reduce static noise on a weak FM stereo station, press FM MODE 18 repeatedly until "MONO" appears to turn off stereo reception. You will lose stereo effect, but reception will improve.

Presetting radio stations

1 Tune to the desired station.

2 Press TUNER MEMORY 25 to select the tuner memory mode.

```
        Preset number
         ↓
ST     MEMORY  1
```

3 Press TUNING +/− 12 or ♦/♦ 26 repeatedly to select the desired preset number.
   If another station is already assigned to the selected preset number, the station is replaced by the new station.

4 Press ⊕ 20 to store the station.

5 Repeat steps 1 through 4 to store other stations.
   You can preset up to 20 FM stations.

To tune in to a preset radio station
If you registered a radio station to a preset number 1 to 6, the radio station will be tuned in by just pressing the TUNER MEMORY NUMBER (1 to 6) 17 when the system function is set to FM.
If you registered a radio station to a preset number 7 or higher, press TUNING MODE 18 repeatedly until "PRESET" appears then press TUNING +/− 12 repeatedly to select the desired preset number.

Using optional audio components

1 Prepare the sound source.
   Connect additional audio component to the AUDIO IN jack C on the unit using an audio analog cord (not supplied).

2 Adjust the volume level to minimum.
   Press VOLUME − 21 on the remote repeatedly or turn the volume dial 14 on the unit counterclockwise until "VOL MIN" appears in the display 13.

3 Press AUDIO IN FUNCTION 7 on the remote or press FUNCTION 7 on the unit repeatedly until "AUDIO IN" appears in the display 13.

4 Start playback.
   Start playback of the connected component and adjust the volume.

Note
The system may enter Standby mode automatically if the volume level of the connected component is too low. Adjust the component's volume accordingly. See "Setting the automatic standby function."

Deactivating the buttons on the unit (Child Lock)

You can deactivate the buttons on the unit (except I/⏻ 9) for preventing misoperation, such as child mischief.
Hold down ■ 11 on the unit for more than 5 seconds. "CHILD" and "LOCK ON" appear in the display 13. You can only operate the system using the buttons on the remote.
To cancel, hold down ■ 11 on the unit for more than 5 seconds until "CHILD" and "LOCK OFF" appear in the display 13.

Note
Child Lock function will be cancelled when you disconnect the power cord.

Adjusting the sound

To	Press
Adjust the volume	VOLUME +/− 21 (or turn the volume dial 14 on the unit).
Set the sound effect	EQ 16 repeatedly.

Tip
This system is equipped with the DSEE function to reproduce clear treble despite degradation caused by compression. The DSEE function is usually activated automatically by recognizing the sound source, but it may not be activated depending on the function in use.

Setting the speaker light illumination

You can set a speaker light illumination from a variety of illumination patterns. The speaker light illumination will create lighting effects based on the music source.
Press LED SPEAKER 5 repeatedly.
Each time you press the button, the pattern changes.

To turn off the speaker light function
Press LED SPEAKER 5 repeatedly until "LED OFF" appears.

Changing the display

To	Press
Change information in the display 13[1]	DISPLAY 15 repeatedly when the system is on.
Change Display mode (see below.)	DISPLAY 15 repeatedly when the system is off.[2]

[1] You can view the following information:
—The elapsed playing time, file name and folder name.
—The title, artist and album information.
[2] The STANDBY indicator 8 on the unit lights up when the system is off.

The system offers the following display modes.

Display mode	When the system is off[1]
Demonstration	The demonstration is turned on.
Power Saving mode[2]	The display is turned off to conserve power. The timer and clock continue to operate.
Clock[3]	The clock is displayed.

[1] The STANDBY indicator 8 on the unit lights up when the system is off.
[2] You cannot set the clock in Power Saving mode.
[3] The clock display automatically turns to Power Saving mode after 8 seconds.

Notes in the display information
- Characters that cannot be displayed appear as "_."
- Total playing time for a USB device is not displayed.
- The following are not displayed correctly;
  —elapsed playing time of an MP3 file encoded using VBR (variable bit rate).
  —folder and file names that do not follow either the ISO9660 Level 1, Level 2 or Joliet in the expansion format.
- ID3 tag information for MP3 files is displayed when ID3 version 1 and version 2 tags are used (ID3 version 2 tag information display has priority when both ID3 version 1 and version 2 tags are used for a single MP3 file).

Using the timers

The system offers 2 timer functions. If you use both timers, the Sleep Timer has priority.

Sleep Timer:
You can fall asleep to music. This function works even if the clock is not set.
Press SLEEP 24 repeatedly to select the desired time.
To cancel the Sleep Timer, press SLEEP 24 repeatedly until "OFF" appears.

Play Timer:
You can wake up to FM reception or USB device at a preset time. Make sure you have set the clock.

1 Prepare the sound source.
   Prepare the sound source, and then press VOLUME +/− 21 on the remote or turn the volume dial 14 on the unit to adjust the volume.

2 Select the timer set mode.
   Press TIMER MENU 23.

3 Set the play timer.
   Press ♦/♦ 26 repeatedly to select "PLAY SET," then press ⊕ 20.

4 Set the time to start playback.
   Press ♦/♦ 26 repeatedly to set the hour, then press ⊕ 20. Use the same procedure to set the minutes.

5 Use the same procedure as in step 4 to set the time to stop playback.

6 Select the sound source.
   Press ♦/♦ 26 repeatedly until the desired sound source appears, then press ⊕ 20.

7 Turn off the system.
   Press I/⏻ 9. The system automatically turns on before the preset time.
   If the system is already on at the preset time, the Play Timer will not be activated. Do not operate the system from the time the system turns on until the playback starts.

To check the setting
1 Press TIMER MENU 23.

2 Press ♦/♦ 26 repeatedly to select "SELECT," and then press ⊕ 20.

3 Press ♦/♦ 26 repeatedly to select "PLAY SEL," and then press ⊕ 20.

To cancel the timer
Repeat the same procedure as above until "OFF" appears in step 3, and then press ⊕ 20.

To change the setting
Start over from step 1 of "Using the timers."

Notes for the iPod/iPhone user
- Make sure the iPod/iPhone is not playing when using the Play Timer.
- The Play Timer may not be activated depending on the status of the connected iPod/iPhone.

Tip
The Play Timer setting remains as long as the setting is not cancelled manually.

Setting the automatic standby function

With the Automatic Standby function, the system enters Standby mode automatically in about 15 minutes when there is no operation or audio signal output. "AUTO:STBY" appears in the display 13 for 2 minutes before the system enters Standby mode. By default, the Automatic Standby function is turned on. Use buttons on the unit to turn off the Automatic Standby function.

Hold down I/⏻ 9 while the system is on, until "AUTO:STBY OFF" appears.
To turn on the function, hold down I/⏻ 9 until "AUTO:STBY ON" appears.

Notes
- The automatic standby function is invalid for the tuner function (FM), even when you have enabled it.
- The system may not enter standby mode automatically in the following cases;
  —when an audio signal is detected.
  —when a USB device is connected.
  —during playback of audio files.
  —while the preset Play Timer or Sleep Timer is in process.
- The system counts down the time again until it enters Standby mode, even when Automatic Standby function is enabled in the following cases:
  —when a USB device is connected.
  —when a button on the remote or unit is pressed.

Troubleshooting

1 Make sure the power cord is connected correctly and firmly.

2 Find your problem in the checklist below, and take the indicated corrective action.
   If the issue persists, contact your nearest Sony dealer.

If the STANDBY indicator 8 flashes
Immediately unplug the power cord, and check the following items.
- Is anything blocking the ventilation holes of the system?
- Is the USB port D short-circuited?
After the STANDBY indicator 8 stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

The demonstration appears in the display 13 after plugging in the power cord even though the system is not turned on.
- Press DISPLAY 15 once while the system is off. The demonstration disappears.
- Set the clock. See "Setting the clock."

The system does not turn on.
- Is the power cord plugged in?

The system has entered standby mode unexpectedly.
- This is not a malfunction. The system enters standby mode automatically in about 15 minutes when there is no operation or audio signal output. See "Setting the automatic standby function."

The clock setting or the Play Timer operation has been cancelled unexpectedly.
- If about a minute elapses with no operation, the clock setting or Play Timer setting is cancelled automatically. Perform the operation again from the beginning.

There is no sound.
- Is anything blocking the ventilation holes of the system?
- The specified station may have temporarily stopped broadcast.

Severe hum or noise.
- Move the system away from sources of noise.
- Connect the system to a different wall outlet.
- Install a noise filter (not supplied) to the power cord.

The remote does not function.
- Remove any obstacles between the remote and the remote sensor 2 on the unit, and position the unit away from fluorescent lights.
- Point the remote at the system's remote sensor 2.
- Move the remote closer to the system.
- The batteries of the remote may be exhausted. Replace the batteries (R6/size AA) with new ones.

The STANDBY indicator 8 remains lit after unplugging the power cord.
- The STANDBY indicator 8 may not turn off immediately after unplugging the power cord. The indicator will turn off after about 40 seconds. This is not a malfunction.

Tip
The Play Timer setting remains as long as the setting is not cancelled manually.

BLUETOOTH device

Pairing cannot be done.
- Move the BLUETOOTH device closer to the system.
- Pairing may not be possible if other BLUETOOTH devices are present around the system. In this case, turn off the other BLUETOOTH devices.

Enter the same passkey that was entered at the BLUETOOTH device correctly.

Connection is not possible.
- The BLUETOOTH device you attempted to connect does not support the A2DP profile, and cannot be connected with the system.
- Enable the BLUETOOTH function of the BLUETOOTH device.
- Establish a connection from the BLUETOOTH device.
- The pairing registration information has been erased. Perform the pairing operation again.
- While connected to a BLUETOOTH device, this system cannot be detected and a connection cannot be established from another BLUETOOTH device which is never paired before.
- Erase the pairing registration information of a BLUETOOTH device and perform the pairing operation again.

The sound skips or fluctuates, or the connection is lost.
- The system and the BLUETOOTH device are too far apart.
- If there are obstacles between the system and your BLUETOOTH device, remove or avoid the obstacles.
- If there is equipment that generates electromagnetic radiation, such as a wireless LAN, other BLUETOOTH device, or a microwave oven nearby, move them away.
  The sound of your "App Remote" cannot be heard on this system.
- Increase the volume on your BLUETOOTH device first, and then adjust the volume using VOLUME +/− 21 on the remote or the volume dial 14 on the unit.

There is severe hum, noise or distorted sound.
- If there are obstacles between the system and your BLUETOOTH device, remove or avoid the obstacles.
- If there is equipment that generates electromagnetic radiation, such as a wireless LAN, other BLUETOOTH device, or a microwave oven nearby, move them away.
- Turn down the volume of the connected BLUETOOTH device.

Application name is mismatched with the actual application in "App Remote."
- Launch the application again from the "App Remote" application.

While running the "App Remote" application via BLUETOOTH, the display automatically switches to "BT AUDIO."
- The "App Remote" application or BLUETOOTH function has failed. Run the application again.

USB device

Are you using a supported USB device?
- If you connect an unsupported USB device, the following problems may occur. Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."
  —The USB device is not recognized.
  —File or folder names are not displayed.
  —Playback is not possible.
  —The sound skips.
  —There is noise.
  —A distorted sound is output.

"OVER CURRENT" appears.
- A problem has been detected with the level of electrical current from the USB port D. Turn off the system and remove the USB device from the USB port D. Make sure there is no problem with the USB device. If this display pattern persists, contact your nearest Sony dealer.

There is no sound.
- The USB device is not connected correctly. Turn off the system, then reconnect the USB device.

There is noise, skipping, or distorted sound.
- Turn off the system, then reconnect the USB device.
- The music data itself contains noise, or the sound is distorted. Noise may have been entered when creating music data due to the conditions of the computer. Create the music data again.
- The bit rate used when encoding the files was low. Send files encoded with higher bit rates to the USB device.

"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 excessive.
  —The internal memory is fragmented.

Erroneous display
- Send the music data to the USB device again, as the data stored on the USB device may have been corrupted.
- The character codes that can be displayed by this system are numbers and alphabets only. Other characters are not displayed correctly.

The USB device is not recognized.
- Turn off the system and turn it back on. Then reconnect the USB device after selecting the "USB" function.
- Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."

The USB device is not working properly.
- Refer to the USB device operation manual for how to deal with this problem.

Play does not start.
- Turn off the system and reconnect the USB device, then turn on the system.
- Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."
- Press ▶ 10 on the remote or ▶II 10 on the unit to start playback.

Play does not start from the first track.
- Set the play mode to Normal Play mode.

Files cannot be played back.
- The audio file does not have the extension ".mp3," ".wma," ".m4a" or ".wav."
- The data is not created in MP3/WMA/AAC/WAV format.
- USB devices formatted with file systems other than FAT16 or FAT32 are unsupported.*
- If you use a partitioned USB device, only files on the first partition can be played.
- Files that are encrypted or protected by passwords, etc. cannot be played back.
* This system supports FAT16 and FAT32, but some USB devices may not support all of these FAT. For details, see the operation manual of each USB device or contact the manufacturer.

Reading takes a long time.
- Reduce the number of folders or files.

iPod/iPhone

There is no sound.
- Make sure the iPod/iPhone is connected securely.
- Make sure the iPod/iPhone is playing music.
- Make sure the iPod/iPhone is updated with the latest software. If not, update the iPod/iPhone before using with the system.
- Adjust the volume.

The sound is distorted.
- Make sure the iPod/iPhone is connected securely.
- Turn down the volume.
- Set the "EQ" setting of the iPod/iPhone to "Off" or "Flat."

Unexpected track changes occur during playback.
- Turn the "Shake to Shuffle" function (changing tracks by shaking the iPod/iPhone) off on the iPod/iPhone when listening to music on the iPod/iPhone at high volumes. If this function is enabled, unexpected track changes may occur due to the vibrations caused by sound pressure from the system.

The iPod/iPhone does not function.
- If the battery of the iPod/iPhone is empty, it may not work with this system. In such a case, recharge it with a computer, etc. then connect it to the system.
- Quit all running applications on your iPod or iPhone before using it with the system. For details, refer to the operation manual supplied with the iPod/iPhone.
- Make sure the iPod/iPhone is connected securely.
- Make sure the iPod/iPhone is updated with the latest software. If not, update the iPod/iPhone before using with the system.
- Because the operation of the system and the iPod/iPhone are different, you may not operate the iPod/iPhone using buttons on the remote or unit. In this case, use the control buttons on the iPod/iPhone.

The iPod/iPhone cannot be charged.
- If the battery of the iPod/iPhone is empty, the system may not be able to charge it even if you connect it to the system. In such a case, recharge it with a computer, etc. then connect it to the system.
- Make sure the iPod/iPhone is connected securely.

The iPod/iPhone cannot be recognized.
- Disconnect the power cord and reconnect it after the STANDBY indicator 8 is turned off. Then turn the system back on.

The ring volume of the iPhone does not change.
- Adjust the ring volume on the iPhone.

Tuner

Severe hum or noise, or stations cannot be received. ("ST" flashes in the display 13.)
- Connect the antenna properly.
- Try another place and orientation for better antenna reception.
- Keep the antennas away from the power cord to avoid picking up noise.
- Turn off any nearby electrical equipment.

To reset the system to factory settings
If the system still does not operate properly, reset the system to factory settings.
Use buttons on the unit to reset the unit to its factory default settings.

1 Disconnect the power cord, and reconnect it after the STANDBY indicator 8 is turned off. Then turn on the system.

2 While holding down ■ 11, press I/⏻ 9.
   Hold down the two buttons simultaneously until "RESET" appears in the display 13.
   All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

Messages

CHILD LOCK : The child lock function has been enabled. To disable the child lock, hold down ■ 11 on the unit until "CHILD" and "LOCK OFF" appear in the display 13.

ERROR : The USB device could not be read or an unknown device is connected.

NoDEVICE : No USB device is connected or the connected USB device has been removed.

NoMEMORY : The memory media is not inserted in the USB device.

NO TRACK : Playable file on the USB device is not loaded in the system.

NOT USED : You tried to perform a specific operation under conditions where that operation is prohibited.

NO SUPPORT : An unsupported USB device, iPod/iPhone model is connected, or the iPod/iPhone whose battery is empty is connected.

TIME NG : The Play Timer start and end times are set to the same time.

Precautions

On safety
- Completely disconnect the power cord (mains lead) from the wall outlet (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 system, unplug the system, and have it checked by qualified personnel before operating it again.
- The power cord can be changed only by a qualified service facility.

On placement
- Do not place the system 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 system on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- Condensation may form on outer surfaces or internally, and cause the system to malfunction if the system is suddenly moved from a cold to a warm environment. If condensation forms, turn off the system, and leave the system off until the moisture evaporates. Do not use the system until the condensation has fully evaporated.

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 obstruct the ventilation holes.

On the speaker system
The built-in 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 system far away from the TV.

Cleaning the cabinet
Clean this system with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pads, scouring powder, or solvents, such as thinner, benzine, or alcohol.

BLUETOOTH wireless technology

BLUETOOTH wireless technology is a short-range wireless technology linking digital devices, such as personal computers and digital still cameras. Using the BLUETOOTH wireless technology, you can operate the units involved within a range of about 10 meters.
The BLUETOOTH wireless technology is commonly used between two devices, but a single device can be connected to multiple devices.
You do not need wires to get connected as you do with a USB connection, and you do not need to place the devices face to face as you do with infrared technology. You can use the technology with one BLUETOOTH device in your bag or pocket.
BLUETOOTH wireless technology is a global standard supported by thousands of companies. These companies produce products that meet the global standard.

Supported BLUETOOTH version and profiles
Profile refers to a standard set of capabilities for various BLUETOOTH product capabilities. See "Specifications" for details on the supported BLUETOOTH version and profiles.

Notes
- To use a BLUETOOTH device connected to this system, the device must support the same profile as this system. Note that the functions of the BLUETOOTH device may be different depending on the specifications of the device, even if it has the same profile as this system.
- Because of the properties of BLUETOOTH wireless technology, playback on this system is slightly delayed compared with audio playback on the transmitting device.

Effective communication range
BLUETOOTH devices should be used within approximately 10 meters (unobstructed distance) of each other. The effective communication range may become shorter under the following conditions.
- When a person, metal object, wall or other obstruction is between the devices with a BLUETOOTH connection
- Locations where a wireless LAN is installed
- Around microwave ovens that are in use
- Locations where other electromagnetic waves occur

Effects of other devices
BLUETOOTH devices and wireless LAN (IEEE 802.11b/g) use the same frequency band (2.4 GHz). When using your BLUETOOTH device near a device with wireless LAN capability, electromagnetic interference may occur. This could result in lower data transfer rates, noise, or inability to connect. If this happens, try the following remedies:
- Try connecting this system and BLUETOOTH mobile phone or BLUETOOTH device when you are at least 10 meters away from the wireless LAN equipment.
- Turn off the power to the wireless LAN equipment when using your BLUETOOTH device within 10 meters.

Effects on other devices
The radio waves broadcast by this system may interfere with the operation of some medical devices. Since this interference may result in malfunction, always turn off the power on this system, BLUETOOTH mobile phone and BLUETOOTH device in the following locations:
- In hospitals, on trains, and in airplanes
- Near automatic doors or fire alarms

Notes
- This system supports security functions that comply with the BLUETOOTH specification as a means of ensuring security during communication using BLUETOOTH technology. However, this security may be insufficient depending on the setting contents and other factors, so always be careful when performing communication using BLUETOOTH technology.
- Sony cannot be held liable in any way for damages or other loss resulting from information leaks during communication using BLUETOOTH technology.
- BLUETOOTH communication is not necessarily guaranteed with all BLUETOOTH devices that have the same profile as this system.
- BLUETOOTH devices connected with this system must comply with the BLUETOOTH specification prescribed by the BLUETOOTH SIG, Inc., and must be certified to comply. However, even when a device complies with the BLUETOOTH specification, there may be cases where the characteristics or specifications of the BLUETOOTH device make it impossible to connect, or may result in different control methods, display or operation.
- Noise may occur or the audio may cut off depending on the BLUETOOTH device connected with this system, the communications environment, or surrounding conditions.

Turning on or off the BLUETOOTH signal
You can connect to the system from a paired BLUETOOTH device in all functions when the system's BLUETOOTH signal is set to on. The BLUETOOTH signal is turned on by default.

Use the buttons on the panel to perform this operation.

Hold down ■ 11 and BLUETOOTH 4 on the unit for about 3 seconds.
"BT ON" or "BT OFF" appears on the display.

Notes
- You cannot perform the following operations when BLUETOOTH signal is set to off:
  — Pairing with BLUETOOTH device
  — Erasing the pairing information
  — Using "App Remote" via BLUETOOTH
  — Setting the BLUETOOTH Standby mode to "ON"
  — Changing BT AAC ON/OFF setting

- When the BLUETOOTH signal is set to off, this system cannot be detected and connection cannot be established from BLUETOOTH device.
- If you touch the N-Mark on the panel with an NFC-compatible smartphone, the BLUETOOTH signal will be set to on automatically.
- When the power is turned off with the I/⏻ 9 button, the BLUETOOTH ON/OFF setting is retained. When the power cord is disconnected and then reconnected, the BLUETOOTH setting will be set to on.

Specifications

Amplifier section
Power output (rated):
  Left/Right Channel: 16 W + 16 W (at 8 ohms, 1 kHz, 1% THD)
Power output (reference):
  Left/Right Channel: 20 W + 20 W (per channel at 8 ohms, 1 kHz)
  Subwoofer: 60 W (at 3 ohms, 100 Hz)

Speaker section
Speaker system: Full range speaker + subwoofer
Rated impedance:
  Left/Right: 8 ohms
  Subwoofer: 3 ohms

Inputs/Outputs
AUDIO IN (stereo mini jack):
  Sensitivity 800 mV, impedance 47 kilohms

USB section
Supported bit rate:
  MP3 (MPEG 1 Audio Layer-3): 32 kbps – 320 kbps, VBR
  WMA: 48 kbps - 192 kbps, VBR
  AAC: 48 kbps - 320 kbps
  WAV: 16 bit PCM
Sampling frequencies:
  MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
  WMA: 44.1 kHz
  AAC: 44.1 kHz
  WAV: 8 kHz - 48 kHz
USB port: Type A, 5 V DC 1.0 A

iPod/iPhone section
Made for
  — iPhone 5
  — iPhone 4S
  — iPhone 4
  — iPhone 3GS
  — iPod touch (5th generation)
  — iPod touch (4th generation)
  — iPod touch (3rd generation)
  — iPod classic
  — iPod nano (7th generation)
  — iPod nano (6th generation)
  — iPod nano (5th generation)
  — iPod nano (4th generation)

"Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Tuner section
FM stereo, FM superheterodyne tuner
Antenna: FM lead antenna
Tuning range: 87.5 MHz – 108.0 MHz (50 kHz step)

BLUETOOTH section
Communication system:
  BLUETOOTH Standard version 3.0
Output:
  BLUETOOTH Standard Power Class 2
Maximum communication range:
  Line of sight approx. 10 m[1]
Frequency band:
  2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method:
  FHSS
Compatible BLUETOOTH profiles[2]:
  A2DP (Advanced Audio Distribution Profile)
  AVRCP (Audio Video Remote Control Profile)
Supported content protection method:
  SCMS-T method
Supported codec:
  SBC (Sub Band Codec), AAC, aptX
Transmission bandwidth:
  20 Hz – 20,000 Hz (with 44.1 kHz sampling)

[1] The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.
[2] BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

General
Power requirements:
  Australian, European, Indian, and New Zealander models:
    AC 220 V – 240 V, 50 Hz/60 Hz
  Other models:
    AC 120 V – 240 V, 50 Hz/60 Hz
Power consumption:
  38 W
Dimensions (W/H/D):
  Approx. 554 mm × 213 mm × 280 mm
Mass:
  Approx. 9.0 kg
Supplied accessories: Remote Commander (1), R6 (Size AA) batteries (2), FM lead antenna (1), Warranty (1) (Australian, European and New Zealander models only), Operating Instructions (this manual) (1)

Design and specifications are subject to change without notice.

Standby power consumption (in Power Saving mode):
  0.5 W (When BLUETOOTH Standby mode is set to off)
  6 W (When BLUETOOTH Standby mode is set to on)
  (BLUETOOTH Standby Mode - All Terminals and Networks Connected): 6.0 W