

SONY[®]

4-131-117-11 (1)

Mini HI-FI Component System

Operating Instructions
MHC-EC99/EC79/EC69
MHC-EC99T/EC79T/EC69T



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.

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.

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.

CAUTION

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



CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASSE 1 LASERAPPARAT

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.



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.



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. 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.

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.

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.

<p>The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.</p>
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- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- Windows Media is a registered trademark of Microsoft Corporation in the United States and/or other countries.

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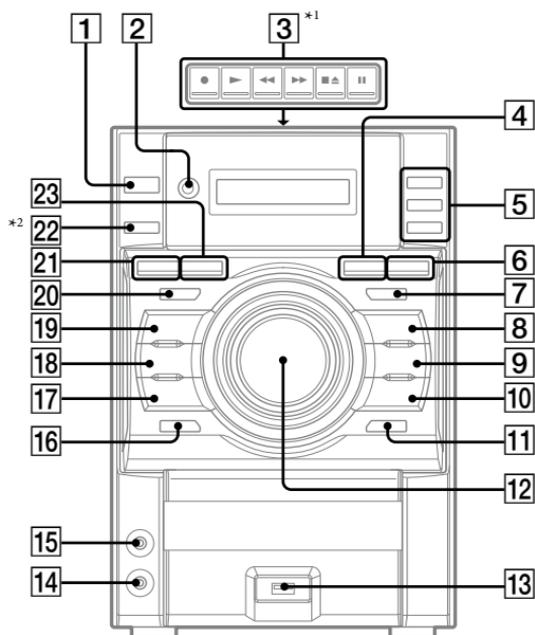
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Guide to parts and controls

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.

Main Unit



*1 MHC-EC99T/EC79T/EC69T only

*2 MHC-EC99/EC99T only

1

I/⏻ (on/standby) button (page 13, 31, 32)

Press to turn on the system.

2

Remote sensor (page 28)

3

(MHC-EC99T/EC79T/EC69T only)

● (record) button

▶ (play) button

◀◀/▶▶ (rewind/fast forward)

button

■ ▲ (stop/eject) button

|| (pause) button

(page 20, 21)

Press to operate the tape functions.

4

CD button (page 13, 15, 31, 32)

Press to select the CD function.

5

DISC 1 – 3 buttons (page 15)

Press to select a disc. Press to switch to the CD function from other function.

6

USB button (page 22)

Press to select the USB function.

7

DSGX button (page 24)

Press to select the sound effect.

8

📁 + (select folder) button (page 16, 20, 22)

Press to select a folder.

9

■ (stop) button (page 16, 18, 22, 31, 32)

Press to stop playback.

10

TUNING + button (page 18, 31)

Press to tune in the desired station.

▶▶▶ (go forward) button (page 16, 22)

Press to select a track or file.

▶▶ (fast forward) button (page 16, 22, 33)

Press to find a point in a track or file.

11

▲ (open/close) button (page 15)

Press to insert and eject a disc.

12

VOLUME control (page 23)

Turn to adjust the volume.

13

↔ (USB) port (page 22, 33)

Connect an optional USB device.

Continued 

14

PHONES jack

Connect the headphones.

15

PC IN jack (page 23)

Connect an audio component (Portable audio player, etc.).

16

**DISC SKIP/EX-CHANGE button
(page 15, 20)**

Press to select a disc. Press to exchange a disc while playing.

17

TUNING — button (page 18)

Press to tune in the desired station.

◀◀ (go back) button (page 16, 22)

Press to select a track or file.

◀◀ (rewind) button (page 16, 22)

Press to find a point in a track or file.

18

▶▶ (play/pause) button (page 13, 15, 22, 30)

Press to start or pause playback.

19

📁 — (select folder) button (page 16, 20, 22)

Press to select a folder.

20

EQ button (page 24)

Press to select the sound effect.

21

DISPLAY button (page 14, 18, 24, 31)

Press to change the information on the display.

22

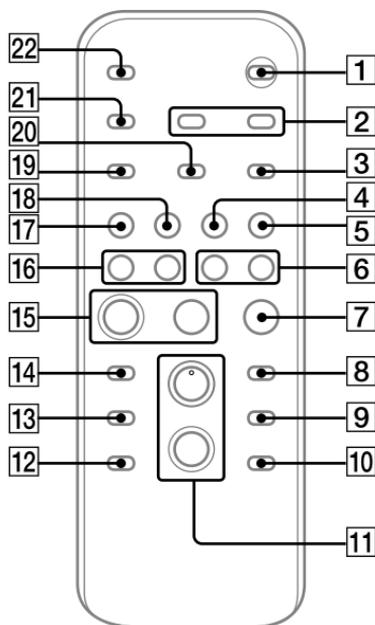
**(MHC-EC99/EC99T only)
SUBWOOFER ON/OFF button
(page 24)**

Press to turn on or off the subwoofer.

23

FUNCTION button (page 15, 18, 20, 22, 23)

Press to select the function.

Remote


1
I/⏻ (on/standby) button (page 14, 26)
 Press to turn on the system.

2
CLOCK/TIMER SELECT button (page 26)
CLOCK/TIMER SET button (page 14, 26)
 Press to set the clock and the Play Timer.

3
REPEAT/FM MODE button (page 16, 18, 22)
 Press to listen to a disc, a USB device, a single track or file repeatedly.
 Press to select the FM reception mode (monaural or stereo).

4
TUNER/BAND button (page 18)
 Press to select the TUNER function.
 Press to select FM or AM reception mode.

5
FUNCTION button (page 15, 17, 18, 22, 23)
 Press to select the function.

6
◀◀/▶▶ (rewind/fast forward) button (page 16, 22, 33)
 Press to find a point in a track or file.

7
■ (stop) button (page 16, 18, 22)
 Press to stop playback.

8
ENTER button (page 14, 18, 19, 26)
 Press to enter the settings.

9
DISC SKIP button (page 15, 17, 20)
 Press to select a disc.

Continued

10

 + (select folder) button (page 16, 17, 20, 22)

Press to select a folder.

11

VOLUME +/- button (page 23, 26)

Press to adjust the volume.

12

 - (select folder) button (page 16, 17, 20, 22)

Press to select a folder.

13

EQ button (page 24)

Press to select the sound effect.

14

CLEAR button (page 18)

Press to delete a pre-programmed track or file.

15

 (play) button (page 15, 18, 22, 30)

Press to start playback.

 (pause) button (page 16)

Press to pause playback.

16

 (go back/go forward) button (page 14, 16, 17, 22, 26)

Press to select a track or file.

+/- (tuning) button (page 18)

Press to tune in the desired station.

17

USB button (page 22)

Press to select the USB function.

18

CD button (page 15, 17)

Press to select the CD function.

19

TUNER MEMORY button (page 19)

Press to preset the radio station.

20

PLAY MODE/TUNING MODE button (page 16, 17, 18, 19, 28)

Press to select the play mode of a CD or MP3 disc.

Press to select the tuning mode.

21

DISPLAY button (page 14, 18, 24)

Press to change the information on the display.

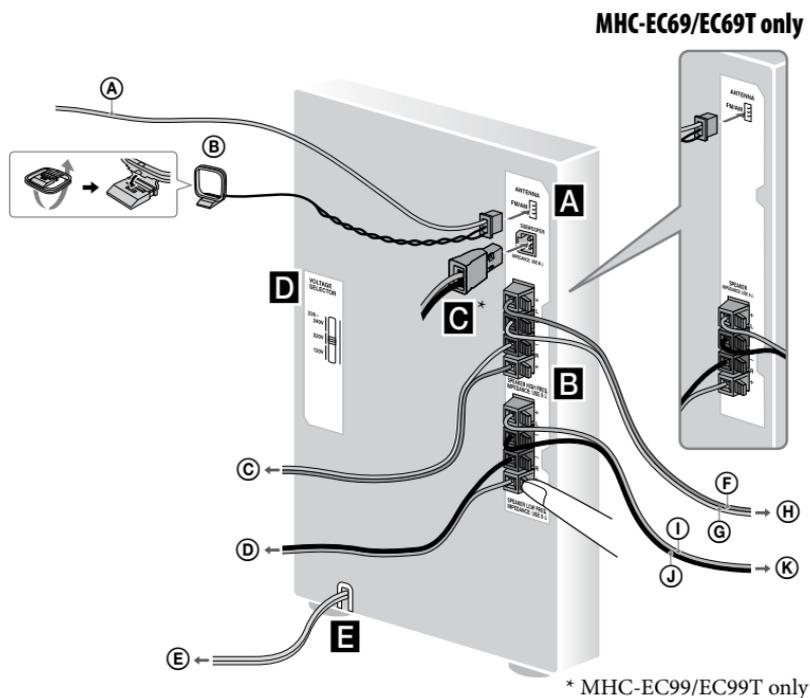
22

SLEEP button (page 25)

Press to set the Sleep Timer.

Getting Started

Hooking up the system securely



- (A) FM lead antenna (Extend it horizontally.)
- (B) AM loop antenna
- (C) To right speaker (High freq.)
- (D) To right speaker (Low freq.)
- (E) To wall outlet
- (F) Solid (Blue/⊕)

- (G) Solid (Black/⊖)
- (H) To left speaker (High freq.)
- (I) Solid (Red/⊕)
- (J) Solid (Black/⊖)
- (K) To left speaker (Low freq.)

Continued

A Antennas

Find a location and an orientation that provide good reception, and then set up the antennas.

Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.

B Speakers

Insert only the stripped portion of the cord.

C Subwoofer (MHC-EC99/EC99T only)

Connect the subwoofer to the SUBWOOFER jack with the subwoofer cord.

Place the subwoofer vertically to obtain a better bass reproduction. Also, position the subwoofer:

- on a solid floor where resonance is unlikely to occur.
- at least a few centimeters away from the wall.
- away from the center of the room or place a bookshelf against a wall, to avoid generating a standing wave.

D Voltage selector

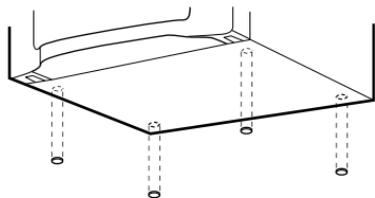
For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

E Power

Connect the power cord to a wall outlet. If the plug does not fit the wall outlet, detach the supplied plug adaptor (only for models equipped with an adaptor).

Attaching the speaker pads

Attach the supplied speaker pads to the bottom of the front speakers and subwoofer to prevent slipping.



Front speakers:
4 pads for each speaker

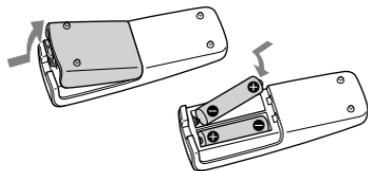


Subwoofer:
4 pads (MHC-EC99/EC99T only)



Inserting batteries

Slide and remove the battery compartment lid, and insert the two supplied R6 (size AA) batteries, \ominus side first, matching the polarities shown below.



Notes

- With normal use, the batteries should last for about six 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.
- Batteries installed devices shall not be exposed to excessive heat such as sunshine, fire or the like.

When carrying this system

Use buttons on the unit.

- 1 Remove all discs to protect the CD mechanism.
- 2 Press CD to select the CD function.
- 3 Hold down $\blacktriangleright \parallel$, and then press I/⏻ until "STANDBY" appears.
- 4 After "LOCK" appears, unplug the power cord.

Setting the clock

Use buttons on the remote to set the clock.

- 1** Turn on the system.
Press I/⏻.
- 2** Select the clock set mode.
Press CLOCK/TIMER SET.
If “PLAY SET” flashes, press ◀▶ repeatedly to select “CLOCK,” and then press ENTER.
- 3** Set the time.
Press ◀▶ repeatedly to set the hour, and then press ENTER.
- 4** Use the same procedure to set the minutes.

Note

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

To display the clock when the system is off

Press DISPLAY repeatedly until the clock is displayed. The clock is displayed for about 8 seconds.

Operations

Playing a CD/MP3 disc

1 Select the CD function.

Press CD (or FUNCTION repeatedly).

2 Place a disc.

Press ▲ on the unit, and place a disc with the label side up on the disc tray. To place additional discs, slide the disc tray with your finger as shown below.

To close the disc tray, press ▲ on the unit.

Do not force the disc tray closed with your finger, as this may damage the unit.



If the discs are currently stopped, press DISC SKIP. To change discs while in other functions, press DISC 1 – 3 on the unit.

CAUTION

DO NOT place a disc here, as it may cause the system to malfunction.



3 Start playback.

Press ► (or ►|| on the unit). To exchange other discs during playback, press EX-CHANGE on the unit.

Other operations

To	Press
Pause playback	II (or ▶II on the unit). To resume play, press the button again.
Stop playback	■ .
Select a folder on an MP3 disc	 +/-.
Select a track or file	◀◀/▶▶ .
Find a point in a track or file	Hold down ◀◀/▶▶ during playback, and release the button at the desired point.
Select Repeat Play	REPEAT repeatedly until “REP” or “REP1” appears.
Select a disc	DISC SKIP (or DISC 1 – 3 on the unit) in stop mode.
Switch to CD function from other function	DISC 1 – 3 on the unit (Automatic Source Selection).
Exchange other discs while playing	DISC SKIP/EX-CHANGE on the unit.

To change the play mode

Press PLAY MODE repeatedly while the player is stopped. You can select normal play (no display for all discs or “1 DISC” for a disc or * for all MP3 files in the folder on the disc), shuffle play (“SHUF” for all discs shuffle, “1 DISC SHUF” for one disc shuffle or  SHUF for folder shuffle), or program play (“PGM”).

* When playing a CD-DA (audio) disc,  (SHUF) Play performs the same operation as 1 DISC (SHUF) Play.

Notes on Repeat Play

- All tracks or files on a disc are played repeatedly up to five times.
- You cannot select “REP” and “SHUF” (all discs shuffle) at the same time.
- “REP1” indicates that a single track or file is repeated until you stop it.

Note on shuffle play mode

When you turn off the system, the selected shuffle play mode (“SHUF”, “1 DISC SHUF” or  SHUF”) is cleared and the play mode returns to normal play mode.

Notes on playing MP3 discs

- 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 system can only play MP3 files that have a file extension of “.mp3”.
- Even when file name has the “.mp3” file extension, if the actual file differs, playing this file may generate a loud noise which could damage the speaker system and the system may malfunction.
- The maximum number of:
 - folders is 150 (including the root folder).
 - MP3 files is 255.
 - MP3 files and folders that can be contained on a single disc is 300.
 - 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

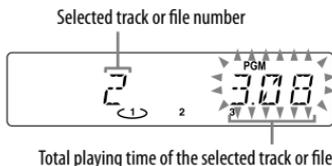
- If the disc begins with a CD-DA (or MP3) session, it is recognized as a CD-DA (or MP3) disc, and playback continues until another session is encountered.
- A disc with a mixed CD format is recognized as a CD-DA disc.

Creating your own program

(Program Play)

Use buttons on the remote to create your own program.

- 1 Select the CD function.**
Press CD (or FUNCTION repeatedly).
- 2 Select the play mode.**
Press PLAY MODE repeatedly until “PGM” appears while the player is stopped.
- 3 Select a disc.**
Press DISC SKIP repeatedly.
- 4 Select the desired track or file number.**
Press ◀◀/▶▶ repeatedly until the desired track or file number appears. When programming MP3 files, press ◻ +/- repeatedly to select the desired folder, and then select the desired file.



Continued

- 5 Program the selected track or file.
Press ENTER to enter the selected track or file.
- 6 Repeat steps 3 through 5 to program additional tracks or files, up to a total of 25 tracks or files.
- 7 To play your program of tracks or files, press ►.
The program remains available until you open the disc tray. To play the same program again, select the CD function, and then press ►.

To cancel Program Play

Press PLAY MODE repeatedly until "PGM" disappears while the player is stopped.

To delete the last track or file of the program

Press CLEAR while the player is stopped.

To view program information, such as total track number of the program

Press DISPLAY repeatedly.

Listening to the radio

- 1 Select "TUNER FM" or "TUNER AM."
Press TUNER/BAND (or FUNCTION) repeatedly.
- 2 Perform tuning.

For automatic scanning

Press TUNING MODE repeatedly until "AUTO" appears, and then press +/- (or TUNING +/- on the unit). Scanning stops automatically when a station is tuned in, and "TUNED" and "ST" (for stereo programs only) appear.



If "TUNED" does not appear and the scanning does not stop, press ■ to stop scanning, then perform manual tuning (below).

For manual tuning

Press TUNING MODE repeatedly until "MANUAL" appears, and then press +/- (or TUNING +/- on the unit) repeatedly to tune in the desired station.

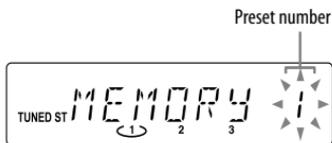
Tip

To reduce static noise on a weak FM stereo station, press FM MODE repeatedly until "MONO" appears to turn off stereo reception.

Presetting a radio station

Use buttons on the remote to preset stations.

- 1 Tune in the desired station.
- 2 Press TUNER MEMORY to select the tuner memory mode.



- 3 Press +/– 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 stations.
- 4 Press ENTER to store the station.
- 5 Repeat steps 1 through 4 to store other stations.
You can preset up to 20 FM and 10 AM stations. The preset stations are retained for about half a day even if you disconnect the power cord or if a power failure occurs.

- 6 To call up a preset radio station, press TUNING MODE repeatedly until “PRESET” appears, and then press +/– repeatedly to select the desired preset number.

Playing a tape (MHC-EC99T/EC79T/ EC69T only)

Use buttons on the unit to play tape.

- 1 Select the TAPE function.
Press FUNCTION repeatedly.
- 2 Insert a tape.
Press  , and insert the tape into the cassette holder.
Make sure there is no slack in the tape to avoid damaging the tape or the tape deck.
- 3 Start playback.
Press .

Other operations

To	Press
Pause playback	 . To resume play, press the button again.
Stop playback	  .
Rewind or fast forward*	  .

* Be sure to press   after the tape has been wound or rewound to the end.

Note

Do not turn off the system during playback.

Recording onto a tape (MHC-EC99T/EC79T/ EC69T only)

Use a TYPE I (normal) tape only.

You can record just the portions you like from a sound source, including the USB device or connected audio components.

- 1 Insert a recordable tape into the cassette holder with the side you want to record facing up.
- 2 Prepare the recording source.
Select the recording source.
Place the disc you want to record and press DISC SKIP to select a disc.
When recording a folder from an MP3 disc, press PLAY MODE repeatedly to select ""; and then press  +/- repeatedly to select the desired folder.
To record only your favorite CD tracks or MP3 files in your desired order, perform steps 2 to 5 of "Creating your own program" (page 17).

3 Start recording.

Press ●, and then start playing the desired recording source.

The CD starts playing automatically after 10 seconds have passed.

If there is noise while recording from the tuner, reposition the appropriate antenna to reduce the noise.

While recording, you cannot listen to other sources.

To stop recording

Press ■ ▲.

Tip

We recommend that you press || first, and then press ■ ▲ to avoid noise being recorded when you stop recording.

Playing a file of a USB device

You can listen to music stored in the USB device.

The audio formats that can be played back by this system are as follows:

MP3*/WMA*/AAC*

* Files with copyright protection (Digital Rights Management) cannot be played by this system.

Files downloaded from an online music store may not be played by this system.

Before using the USB device with this system

- Refer to “Playable USB devices” (page 40) for a list of USB devices that can be connected to this system.
- Operation may not always be ensured even when using these USB devices.
- When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected. See the operating instructions supplied with the USB device to be connected for details on the operation method.
- Do not connect the system and the USB device through an USB hub.
- When the USB device is connected, “READING” appears and “USB MEMORY” lights up in the display.
- It may take about 10 seconds before “READING” appears depending on the type of USB device connected.

Continued 

- When the USB device is inserted, 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.
- The maximum number of audio files and folders that can be contained on a single USB device is 999 (including the “ROOT” folder). The maximum number of audio files and folders 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.
- Compatibility with all encoding/writing softwares, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.

1 Select the USB function.

Press USB (or FUNCTION repeatedly).

2 Connect a USB device to the (USB) port.

When the USB device is connected, the display changes as follows:
“READING” → “1”

3 Start playback.

Press  (or  on the unit).

Other operations

To	Press
Pause playback	 on the unit. To resume play, press the button again*.
Stop playback	 .
Select a folder	 +/-.
Select a file	 .
Find a point in a file	Hold down  during playback, and release the button at the desired point.
Select Repeat Play	REPEAT repeatedly until “REP,”  REP” or “REP1” appears.

* When playing a VBR MP3/WMA/AAC file, the system may resume playback from a different point.

Notes

- Some time may be needed to start playback when:
 - the folder structure is complex.
 - the memory capacity is excessive.
- The system can play back to a depth of 8 folders only.
- This system does not necessarily support all the functions provided in a connected USB device.
- The playback order for the system may differ from the order of the connected USB device.
- Folders that have no audio files are skipped.
- The file formats that this system can play are as follows:
 - MP3: file extension “.mp3”
 - WMA: file extension “.wma”
 - AAC: file extension “.m4a”, “.mp4”, “.3gp”Note that even when file names have the above file extensions, if the actual files differ, playing these files may generate a loud noise which could damage the speaker system and the system may malfunction.

Note on Repeat Play

All files on a USB device are repeated until you stop playback.

Using optional audio components

- 1 Prepare the sound source.**
Connect additional audio component to the PC IN jack on the unit using an audio analog cord (not supplied).
- 2 Turn down the volume.**
Press VOLUME – (or turn the VOLUME control on the unit).
- 3 Select the PC function.**
Press FUNCTION repeatedly.
- 4 Start playback.**
Start playback of the connected component.
- 5 Adjust the volume.**
Press VOLUME +/- (or turn the VOLUME control on the unit).

Adjusting the sound

To	Press
Generate a more dynamic sound (Dynamic Sound Generator X-tra)	DSGX on the unit.
Set the sound effect	EQ.

To turn on the subwoofer (MHC-EC99/EC99T only)

Press SUBWOOFER ON/OFF on the unit until "SUBWOOFER" appears. The volume of the subwoofer is linked to the front speakers.

Changing the display

To	Press
Change information on the display*	DISPLAY repeatedly when the system is turned on.
Change Display mode (See below.)	DISPLAY repeatedly when the system is turned off.

* For example, you can view CD/MP3 disc information or the USB device information, such as:

- track or file number during normal play.
- track or file name ("🎵") during normal play.
- artist name ("👤") during normal play.
- album or folder name ("📁") during normal play.
- total playing time while the player is stopped.

The system offers the following display modes.

Display mode	When the system is off,
Power Saving Mode ¹⁾	The display is turned off to conserve power. The timer and clock continue to operate.
Clock ²⁾	The clock is displayed.

¹⁾ You cannot set the clock in Power Saving Mode.

²⁾ The clock display automatically turns to Power Saving Mode after 8 seconds.

Notes on the display information

- Characters that cannot be displayed appear as “_”.
- The following are not displayed:
 - total playing time for an MP3 disc and USB device
 - remaining playing time for a file
- The following are not displayed correctly:
 - elapsed playing time of a file encoded using a 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
- The following are displayed:
 - total playing time for a CD-DA disc when the play mode is “1 DISC”
 - remaining playing time for a track
 - ID3 tag information for MP3 files 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)
 - up to 15 characters of ID3 tag, WMA tag and AAC tag information using uppercase letters (A to Z), numbers (0 to 9), and symbols (“ \$ % ’ () * , - . / < = > @ [\] _ ` { } ! ? ^)

Using the timers

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

Use buttons on the remote to use the timer functions.

Sleep Timer:

You can fall asleep to music. This function works even if the clock is not set.

Press SLEEP repeatedly.

If you select “AUTO,” the system automatically turns off after the current disc, tape or USB device stops or in 100 minutes.

If the tape deck is still playing or recording at the set time, the system turns off after the tape deck stops.

Play Timer:

You can wake up to CD, tuner 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 +/- to adjust the volume.
To start from a specific CD track or audio file, create your own program (page 17).
- 2 Select the timer set mode.**
Press CLOCK/TIMER SET.
- 3 Set the play timer.**
Press ◀◀/▶▶ repeatedly to select "PLAY SET," and then press ENTER. "ON TIME" appears, and the hour indication flashes.
- 4 Set the time to start playback.**
Press ◀◀/▶▶ repeatedly to set the hour, and then press ENTER.
The minute indication flashes. Use the procedure above to set the minutes. "OFF TIME" appears and the hour indication flashes in the display.
- 5 Use the same procedure as in step 4 to set the time to stop playback.**

- 6 Select the sound source.**
Press ◀◀/▶▶ repeatedly until the desired sound source appears, and then press ENTER. The display shows the timer settings.

- 7 Turn off the system.**
Press I/⏻.
The system turns on 15 seconds before the preset time. If the system is on at the preset time, the Play Timer will not play.
Do not operate the system from the time the system turns on until the play starts.

To check the setting

Press CLOCK/TIMER SELECT, press ◀◀/▶▶ repeatedly until "PLAY SEL" appears, and then press ENTER.

To cancel the timer

Repeat the same procedure as above until "OFF" appears, and then press ENTER.

To change the setting

Start over from step 1.

Tip

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

Troubleshooting

- 1 Make sure the power cord and speaker cords are correctly and firmly connected.
- 2 Find your problem in the checklist below, and take the indicated corrective action.
If the issue persists, contact your nearest Sony dealer.

If “PROTECT” appears on the display

Immediately unplug the power cord, and check the following items after “PROTECT” disappears.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- Are the + and – speaker cords short-circuited?
- Is anything blocking the ventilation holes on the back of the system?

After you have checked these above items and found to be all right, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

The system does not turn on.

- Is the power cord plugged in?
- Is the voltage selector set correctly to match the local power line voltage?

There is no sound.

- Are the + and – speaker cords short-circuited?
- Are you using only the supplied speakers?
- Is anything blocking the ventilation holes on the back of the system?

Sound comes from one channel, or the left and right volumes are unbalanced.

- Place the speakers as symmetrically as possible.
- Connect only the supplied speakers.

Severe hum or noise.

- Move the system away from sources of noise.
- Connect the system to a different wall outlet.
- Install a noise filter (available separately) to the power cord.

The remote does not function.

- Remove any obstacles between the remote and the remote sensor on the unit, and position the unit away from fluorescent lights.
- Point the remote at the system's sensor.
- Move the remote closer to the system.

CD/MP3 player

The sound skips, or the disc will not play.

- Wipe the disc clean, and replace it.
- Move the system to a location away from vibration (for example, on top of a stable stand).
- Move the speakers away from the system, or place them on separate stands. At high volume, speaker vibration may cause the sound to skip.

Play does not start from the first track.

- Return to Normal Play by pressing PLAY MODE repeatedly until both "PGM" and "SHUF" disappear.

Starting playback takes more time than usual.

- The following discs can increase the time it takes 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 disc tray does not open and "LOCKED" appears.

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

Tape deck (MHC-EC99T/EC79T/EC69T only)

The sound exhibits excessive wow or flutter or dropout.

- Clean the capstans, pinch rollers and tape heads. See "Precautions" for details.

USB device

Are you using a supported USB device?

- If you connect an unsupported USB device, the following problems may occur. See “Playable USB devices” (page 40) for the supported device types.
 - The USB device is not recognized.
 - File or folder names are not displayed on this system.
 - 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. Turn off the system and remove the USB device from the  (USB) port. 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 and reconnect the USB device, then turn on the system and check if “USB MEMORY” appears in the display.

There is noise, skipping, or distorted sound.

- Turn off the system and reconnect the USB device, then turn on the system.
- The music data itself contains noise, or the sound is distorted. Noise may have entered during the recording process. Delete the file, and try recording again.
- The bit rate used when encoding the files was low. Send files encoded with higher bit rates to the USB device.

The USB device cannot be connected into the (USB) port.

- The USB device is being connected backwards. Connect the USB 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 excessive.
 - The internal memory is fragmented.Thus, we recommend following these guidelines.
 - Total folders on USB device: 100 or less
 - Total files per folder: 100 or less

Erroneous display

- Send the music data 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 system are numbers and alphabet only. Other characters are not displayed correctly.

The USB device is not recognized.

- Turn off the system and reconnect the USB device, then turn on the system.
- Connect the supported USB device (page 40).
- The USB device does not work 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.
- Connect the supported USB device (page 40).
- Press ► (or ►|| on the unit) to start play.

Files cannot be played back.

- The audio file does not have the extension “.mp3”, “.wma”, “.m4a”, “.mp4” or “.3gp.”
 - The audio file is a multiple track audio file.
 - The file is a video file.
 - The data is not stored in MP3/WMA/AAC format.
 - The data is stored in WMA lossless/AAC lossless format.
 - USB storage devices formatted with file systems other than FAT16 or FAT32 are unsupported.*
 - If you use a partitioned USB storage device, only files on the first partition can be played.
 - Playback is possible up to eight levels.
 - The number of folders has exceeded 997.
 - The number of files has exceeded 999.
 - Files that are encrypted or protected by passwords, etc. cannot be played back.
- * This system supports FAT16 and FAT32, but some USB storage devices may not support all of these FAT. For details, see the operation manual of each USB storage device or contact the manufacturer.

Tuner

Severe hum or noise, or stations cannot be received. ("TUNED" or "ST" flashes on the display.)

- Connect the antenna properly.
- Find a location and an orientation that provide good reception, and then set up the antenna again.
- Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Turn off nearby electrical equipment.

To change the AM tuning interval

The AM tuning interval is factory-preset to 9 kHz or 10 kHz (for some areas: this function is not available on the European and Russian models).

Use buttons on the unit to change the AM tuning interval.

- 1 Tune in any AM station, and then turn off the system.
- 2 Press DISPLAY to display the clock.
- 3 While holding down TUNING +, press I/⏻.

All the AM preset stations are erased. To reset the interval to the factory preset, repeat the procedure.

To improve tuner reception

Turn off the CD player/USB device power by using the CD/USB power management function. By default, the CD/USB power is turned on.

Use buttons on the unit to turn off the CD player/USB device power.

- 1 Press CD to select the CD function.
- 2 Press I/⏻ to turn off the system.
- 3 After "STANDBY" stops flashing, press DISPLAY to display the clock and then press I/⏻ while holding down ■.

"CD/USB PWR OFF" appears. With the CD player/USB device power turned off, access time is increased. In addition, when the TUNER function is selected, power is not supplied to the USB device, so it is not recognized even if connected.

To turn on the CD player/USB device power, repeat the procedure until "CD/USB PWR ON" appears.

To reset the system to factory settings

If the system still does not operate properly, reset the system to factory settings. You cannot reset the system to factory settings in Power Saving Mode. Use buttons on the unit to reset the unit to its factory default settings.

- 1 Disconnect and reconnect the power cord, and then turn on the system.
- 2 Press **■**, **CD**, and **I/⏻** at the same time.
All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

Messages

One of the following messages may appear or flash in the front panel display during operation.

CANNOT LOCK

The system cannot be locked after you have done the procedure of “When carrying this system.”

COMPLETE

The radio preset operation ended normally.

DEVICE ERROR

The USB device could not be recognized or an unknown device is connected (page 40).

FULL

You tried to program more than 25 tracks or files (steps).

LOCKED

The disc tray does not open. Contact your nearest Sony dealer.

No DEVICE

No USB device is connected or the connected USB device has been stopped.

NO DISC

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

NO STEP

All of the programmed tracks have been erased.

NO TAB**(MHC-EC99T/EC79T/EC69T only)**

You cannot record the tape because the tab has been removed from the tape.

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.

OVER

You have reached the end of the disc while pressing ►► during playback or pause.

OVER CURRENT

An over current from the ⚡ (USB) port was detected.

PROTECT

The following causes can be considered:

- The voltage selector may not be set to the correct local power line voltage.
 - Speaker cords may be short-circuited.
 - The ventilation holes may be blocked.
- See “If “PROTECT” appears on the display” (page 27) to check what to do if this message appears.

PUSH SELECT

You tried to set the clock or timer during timer operation.

PUSH STOP

You have pressed the buttons whose operation is only possible when playback is stopped.

READING

- The system is reading information of the disc. Some buttons are not available.
- The system is recognizing the USB device.

REMOVED

The USB device has been removed.

SET CLOCK

You tried to select the timer when the clock is not set.

SET TIMER

You tried to select the timer when the Play Timer is not set.

TIME NG

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

Display examples

Display	indicates
2	2 (two)
5	5 (five)
6	6 (six)
8	8 (eight)
0	0 (zero)
A	A
B	B
D	D
G	G
H	H
K	K
M	M
O	O
Q	Q
R	R
S	S
Z	Z
”	”
\$	\$
%	%
,	,
.	.
?	?
@	@
^	^

Precautions

Discs that this system CAN play

- Audio CD
- CD-R/CD-RW (audio data/MP3 files)

Discs that this system CANNOT play

- CD-ROM
- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet
- CD-R/CD-RW recorded in multisession that have not ended by “closing the session”
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that have scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly
- Discs containing files other than MPEG 1 Audio Layer-3 (MP3) files
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched

Notes on discs

- Before playing, wipe the disc with a cleaning cloth from the centre out to the edge.
- Do not clean discs with solvents, such as benzine thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

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.
- AC power cord must be changed only at the qualified service shop.

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 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 system 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 system to malfunction. In this situation, remove the disc, and leave the system 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 obstruct the ventilation holes.

On the speaker system

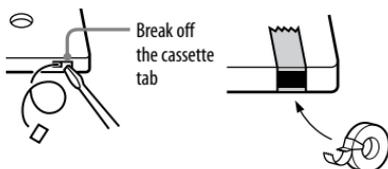
This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

Cleaning the cabinet

Clean this system 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.

To prevent a tape from being accidentally recorded over (MHC-EC99T/EC79T/EC69T only)

Break off the cassette's overwrite protection tab from side A or B as illustrated.



To later reuse the tape for recording, cover the broken tab with adhesive tape.

About a tape longer than 90 minutes (MHC-EC99T/EC79T/EC69T only)

The use of the tape with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Cleaning the tape heads (MHC-EC99T/EC79T/EC69T only)

Use dry- or wet-type cleaning cassette (available separately) after every 10 hours of use, before you start an important recording, or after playing an old tape. Failure to clean the tape heads can cause degraded sound quality or an inability of the unit to record or play tapes. For details, refer to the instructions of the cleaning cassette.

Specifications

Main unit

Amplifier section

The following measured at AC 230 V, 50/60 Hz (European and Russian models)
The following measured at AC 120, 127, 220, 240 V, 50/60 Hz (Other models)

MHC-EC99/EC99T

Front Speaker:

Power output (rated):

Low channel
50 W + 50 W (at 8 Ω, 1 kHz, 1% THD)

High channel
50 W + 50 W (at 8 Ω, 8 kHz, 1% THD)

RMS output power (reference):

Low channel
65 W + 65 W (per channel at 8 Ω, 1 kHz, 10% THD)

High channel
65 W + 65 W (per channel at 8 Ω, 8 kHz, 10% THD)

Subwoofer:

RMS output power (reference):

90 W (at 4 Ω, 80 Hz, 10% THD)

Continued 

MHC-EC79/EC79T

Power output (rated):

Low channel

55 W + 55 W (at 8 Ω , 1 kHz, 1% THD)

High channel

55 W + 55 W (at 8 Ω , 8 kHz, 1% THD)

RMS output power (reference):

Low channel

75 W + 75 W (per channel at 8 Ω , 1 kHz, 10% THD)

High channel

75 W + 75 W (per channel at 8 Ω , 8 kHz, 10% THD)

MHC-EC69/EC69T

Power output (rated):

50 W + 50 W (at 6 Ω , 1 kHz, 1% THD)

RMS output power (reference):

70 W + 70 W (per channel at 6 Ω , 1 kHz, 10% THD)

Inputs

PC IN (stereo mini jack):

Sensitivity 800 mV, impedance 22 kilohms

Outputs

PHONES (stereo mini jack):

accepts headphones with an impedance of 8 Ω or more

SPEAKER: impedance

MHC-EC99/EC99T/EC79/EC79T:

8 Ω

MHC-EC69/EC69T: 6 Ω

SUBWOOFER (MHC-EC99/EC99T only):

impedance 4 Ω

USB section

Supported bit rate:

MP3 (MPEG 1 Audio Layer-3)/

WMA/AAC:

32 – 320 kbps, VBR

Sampling frequencies:

MP3 (MPEG 1 Audio Layer-3)/

WMA/AAC:

32/44.1/48 kHz

↔ (USB) port:

Maximum current:

500 mA

CD player section

System:

Compact disc and digital audio system

Laser Diode Properties

Emission Duration: Continuous

Laser Output*: Less than 44.6 μ W

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

Frequency response: 20 Hz – 20 kHz

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 88 dB

Tape deck section (MHC-EC99T/EC79T/EC69T only)

Recording system: 4-track 2-channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner

Antenna:

FM lead antenna

AM loop antenna

FM tuner section:

Tuning range:

87.5 — 108.0 MHz (50 kHz step)

Intermediate frequency: 10.7 MHz

AM tuner section:

Tuning range

European and Russian models:

531 — 1,602 kHz

(with 9 kHz tuning interval)

Latin American models:

530 — 1,710 kHz

(with 10 kHz tuning interval)

531 — 1,710 kHz

(with 9 kHz tuning interval)

Other models:

531 — 1,602 kHz

(with 9 kHz tuning interval)

530 — 1,610 kHz

(with 10 kHz tuning interval)

Intermediate frequency: 450 kHz

Speaker**Front Speaker (SS-EC79) for MHC-EC99/EC99T/EC79/EC79T**

Speaker system:

3-way 3-driver speaker system, Bass reflex

Speaker unit:

Subwoofer: 130 mm, cone type

Woofer: 130 mm, cone type

Tweeter: 40 mm, horn type

Rated impedance:

High frequency: 8 Ω

Low frequency: 8 Ω

Dimensions (w/h/d):

Approx. 220 × 350 × 215 mm

Mass: Approx. 3.2 kg

Front Speaker (SS-EC69) for MHC-EC69 (except for European model)/EC69T

Speaker system:

2-way 2-driver speaker system, Bass reflex

Speaker unit:

Woofer: 160 mm, cone type

Tweeter: 40 mm, horn type

Rated impedance: 6 Ω

Dimensions (w/h/d):

Approx. 220 × 306 × 215 mm

Mass: Approx. 2.6 kg

Front Speaker (SS-EC69i) for MHC-EC69 (European model only)

Speaker system:

2-way 2-driver speaker system, Bass reflex

Speaker unit:

Woofer: 130 mm, cone type

Tweeter: 40 mm, horn type

Rated impedance: 6 Ω

Dimensions (w/h/d):

Approx. 190 × 306 × 185 mm

Mass: Approx. 2.0 kg

Subwoofer (SS-WG99A) for MHC-EC99/EC99T

Speaker system:

Subwoofer system, Bass reflex

Speaker unit:

Subwoofer: 200 mm, cone type

Rated impedance: 4 Ω

Dimensions (w/h/d):

Approx. 280 × 306 × 305 mm

Mass: Approx. 5.1 kg

General

Power requirements

European and Russian models:

AC 230 V, 50/60 Hz

Mexican model:

AC 127 V, 60 Hz

Argentine model:

AC 220 V, 50/60 Hz

Other models:

AC 120, 220, 230 – 240 V, 50/60 Hz,

adjustable with voltage selector

Power consumption

MHC-EC99/EC99T: 175 W

(0.5 W at the Power Saving Mode)

MHC-EC79/EC79T: 170 W

(0.5 W at the Power Saving Mode)

MHC-EC69/EC69T: 110 W

(0.5 W at the Power Saving Mode)

Dimensions (w/h/d) (excl. speakers)

Approx. 200 × 306 × 415 mm

Mass (excl. speakers)

MHC-EC99: Approx. 6.5 kg

MHC-EC99T: Approx. 6.8 kg

MHC-EC79: Approx. 6.4 kg

MHC-EC79T: Approx. 6.7 kg

MHC-EC69: Approx. 5.4 kg

MHC-EC69T: Approx. 5.7 kg

Supplied accessories: Remote Commander (1), R6 (Size AA) batteries (2), FM lead/AM loop antenna (1), Speaker pads MHC-EC99/EC99T (8) and for SS-WG99A (Subwoofer) (4)/MHC-EC79/EC79T/EC69/EC69T (8)

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.

Playable USB devices

You can use the following Sony USB devices on this system. Other USB devices cannot be used on this system.

Verified Sony digital music player (as of December 2008)

Product name	Model name
Walkman®	NWD-B103 / B105 / B103F / B105F
	NWZ-B133 / B135 / B133F / B135F
	NWD-E023F / E025F
	NWZ-E435F / E436F / E438F
	NWZ-S515 / S516
	NWZ-S615F / S616F / S618F
	NWZ-S715F / S716F / S718F
	NWZ-S636F / S638F / S639F
	NWZ-S736F / S738F / S739F
	NWZ-A815 / A816 / A818
	NWZ-A726 / A728 / A729
	NWZ-A826 / A828 / A829

Verified Sony IC Recorder (as of December 2008)

Product name	Model name
IC Recorder	ICD-SX57 / SX67 / SX77
	ICD-UX71 / UX81 / UX91
	ICD-SX68 / SX78 / SX88

Verified Sony USB storage device (as of December 2008)

Product name	Model name
MICROVAULT	USM512JX / 1GJX / 2GJX / 4GJX
	USM1GL / 2GL / 4GL / 8GL / 16GL
	USM1GLX / 2GLX / 4GLX / 8GLX / 16GLX

Notes

- The unit is unable to read data in NTFS format.
- The unit is unable to read data other than that saved in the first partition of a hard disk drive.
- Do not use USB devices other than these USB devices. Operation of models not listed here is not guaranteed.
- Operation may not always be ensured even when using these USB devices.
- Some of these USB devices may not be available for purchase in certain areas.
- When formatting the above models, be sure to format using the model itself or the dedicated formatting software for that model.

Note on Walkman®

When connecting a Walkman® to the system, be sure to connect after the display “Creating Library” or “Creating Database” on the Walkman® has disappeared.

