### Operating Instructions



CFD-S50

http://www.sony.net/

### WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

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

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned

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

Excessive sound pressure from earphones and headphones can cause hearing loss Do not expose the batteries (battery pack or

batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

The nameplate and important information concerning safety are located on the bottom

#### 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 quarantee matters, please refer to the addresses provided in the 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. 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

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

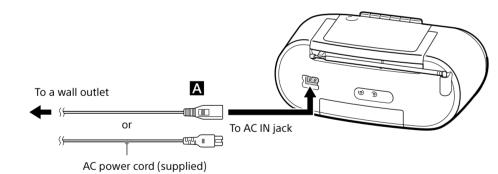
For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the

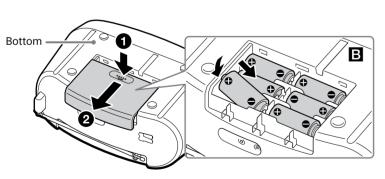
### **Licence and Trademark Notice**

• MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

# **Power Sources**

Connect the AC power cord **A**, or insert six R14 (size C) batteries (not supplied) into the battery





Use alkaline batteries with this unit. The use of manganese batteries is not recommended, since this type of battery has an extremely short usage time.

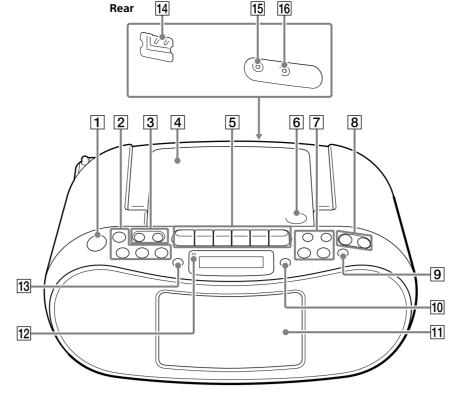
# Notes

- Replace the batteries when the OPR/BATT indicator 12 dims, or when the unit becomes inoperable. Replace all of the batteries with new ones. Before you replace the batteries, be sure to remove any CD or tape and disconnect any optional component from the unit.
- To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet.

#### To use the power-management function (European models only) This unit is equipped with an automatic standby function. With this function, the unit enters standby mode automatically after about 15 minutes if there is no operation or audio signal output.

- The displayed content starts flashing on the display about 2 minutes before entering standby mode. • In standby mode with the AC power cord connected, "STANDBY" appears on the display (European models
- The automatic standby function is not available with the FM/AM function.

#### **Basic Operations**



- 1 POWER (or OPERATE) button 2 Function buttons
- RADIO FM/AM-AUTO PRESET button TAPE button CD button **AUDIO IN button**
- 3 TUNE/ (folder) + button TUNE/☐ (folder) — button
- 5 Tape operation buttons II (pause) button
- 4 CD compartment cover
- (stop/open) button
- ◄ (fast forward) button ▶► (rewind) button
- (play) button\* • (record) button
- 6 PUSH OPEN/CLOSE ▲ 7 ► (go backward)/PRESET
- ▶► (go forward)/PRESET + button
- ►II (play/pause)/MANUAL PRESET button\* ■ (stop) button
- 8 VOLUME button VOLUME + button\*

button

- 9 MEGA BASS button 10 DISPLAY/ENTER button
- 11 Cassette tape compartment
- 12 OPR/BATT indicator
- 13 MODE button 14 AC IN jack 15 ∩ (headphones) jack
- 16 AUDIO IN jack

(Example: an audio CD)

(Example: an MP3 disc)

- ▶**II** 7, VOLUME + 8 and 5
- have a tactile dot.

Playing time\*1

Playing time\*2\*3

02:10

\*1 Each time you press DISPLAY 10, the playback

time and showing the current track number.

\*2 If the playing time is longer than 100 minutes,

\*3 Each time you press DISPLAY 10, the playback

time and showing the current track number

and the number of the folder containing that

playback, press the button

Press ■ 7. When you press

the beginning of the track/

press ►II 7 after you cancel

Resume Play, playback starts

skip tracks/files one by one.

during playback, and release

while paused, press ►II 7 to

Folder

MP3 file

the button at the desired point. When locating a point

start playback after the

desired point is found.

from the beginning of the

file you were last playing

(Resume Play).

first track/file.

Select a track/ Press ◄ or ► 7. You can

Find a point in a Hold down ◄ or ► 7

Resume Play is cancelled if you open the CD

**Example of folder structure and** 

The playing order of the folders and files is as

Press  $\triangle$  + or -  $\boxed{3}$ .

Cancel Resume Press ■ 7 twice. When you

stopped, playback starts from

▶ 11 7 after playback is

Do this

Pause playback Press ▶II 7. To return to

screen switches between showing the playing

--:--" appears on the display.

Other operations

Stop playback

Select a folder

on an MP3 disc

playing order

Notes on MP3 discs

are skipped.

extension of ".mp3".

following cases:

disc exceeds 99.

To change play modes

9 (including the "ROOT" folder).

For details, see "Selecting play mode."

Press MODE 13 repeatedly while the disc is

noise or may malfunction • MP3 PRO format is not supported.

• When a disc is loaded, the unit reads all the files

disc, it may take a long time for play to begin or

• We recommend that non-MP3 files or unnecessary folders are excluded when creating MP3 discs.

• During playback, folders that contain no MP3 files

• This system can only play MP3 files that have a file

Note that even if the file name has the correct file extension but the actual file was created in a different audio format, this unit may produce

• This unit cannot play audio files on a disc in the

- When the total number of audio files exceeds - When the total number of folders on a single

– When the directory level (folder depths) exceeds

for the next MP3 file to start to play.

on that disc. During this time, "READ" is blinking. If there are many folders or non-MP3 files on the

CD-R CD-RW

 $(\circ)$ 

track/file

screen switches between showing the playing

MEGA BASS

## Before using the unit

#### To turn the power on or off

Press POWER (or OPERATE) 1. You can also turn on the power of this unit using the direct

power-on function (below). In this manual, operations are mainly explained using the direct power-on function.

To use the direct power-on function Press CD 2, TAPE 2, RADIO FM/AM 2 or AUDIO IN 2 while the unit is turned off. The power turns on with the relevant function selected.

#### To adjust the volume Press VOLUME + or - 8.

The volume level of this unit is adjustable in steps from 0 to 31.

# To listen through headphones

Connect headphones to the  $\Omega$  (headphones) jack

#### To reinforce the bass Press MEGA BASS 9

"MEGA BASS" lights up on the display. To return to normal sound, press the button

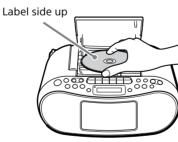
## Playing a music disc

You can play the following types of discs with this unit.

- -Audio CDs on which CD-DA tracks are recorded in CD-DA disc format
- -CD-R/CD-RW discs on which CD-DA tracks are
- recorded in CD-DA disc format -CD-R/CD-RW discs on which MP3 audio files
- are recorded in ISO 9660 Level 1/Level 2 or
- 1 Press CD 2 to turn on the CD function.



2 Press PUSH OPEN/CLOSE **≜ 6**, place a disc in the CD compartment and then close the compartment cover.

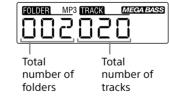


The disc is loaded and the disc information appears on the display. The information displayed varies depending on the disc type (audio CD/MP3 disc).

(Example: when an audio CD is loaded)



(Example: when an MP3 disc is loaded)



**3** Press ►II 7 to start playback. MANUAL PRESET



# Listening to the radio

1 Press RADIO FM/AM 2 repeatedly to select the band "FM" or "AM."

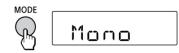


2 Hold down TUNE + or -3 until the frequency digits begin to change on the display.



The unit automatically scans the radio frequencies and stops when it finds a clear station. When an FM stereo broadcast is received, "ST" lights up on the display. If you cannot tune to a station using automatic tuning mode, press  $TUN\bar{E} + or - 3$ repeatedly to change the frequency step by

If the stereo FM reception is noisy, press MODE 13 repeatedly until "Mono" appears on the display. You will lose the stereo effect, but the broadcast will



To change the FM/AM tuning interval (Philippines, Singapore, Malaysia and India models only)

The FM/AM tuning interval can be changed if necessary using the following procedure.

- 1 Press RADIO FM/AM 2 repeatedly to select a band.
- 2 Hold down MANUAL PRESET 7 until "FM-xx" or "AM-xx" flashes on the display.
- 3 Hold down RADIO FM/AM 2 until the current tuning step appears.
- 4 Press **I** or **I** oselect the desired "FM 50K" (for 50 kHz interval) or "FM 100K" (for
- 100 kHz interval) in the FM band, and "AM 9K" (for 9 kHz interval) or "AM 10K" (for 10 kHz interval) in the AM band can be selected.

**5** Press ENTER 10. Changing the tuning interval erases all the FM/ AM preset stations stored in the unit. Reset your preset stations after changing the tuning

To improve radio reception Reorient the antenna to improve FM reception.



Reorient the unit itself to improve AM reception



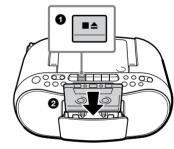
# Playing a tape

Check the following items before starting operation.

- Use a type I (normal) tape only. You cannot use any other types of tape with this
- If there is tape slack, rewind the slack using a pencil to avoid damaging the tape or the unit.



- 1 Press TAPE 2 to turn on the tape
- 2 Press 5 ( ), insert a cassette tape into the cassette tape compartment (2) and then close the compartment cover.



**3** Press **◀ 5** to start playback.



# Other operations

То	Do this
Stop playback	Press ■▲ 5.
Pause playback	Press [ 5]. To resume playback, press the button again.
Fast-forward or rewind	Press ◀◀ or ▶▶ 5.
Eject the	Press ■▲ 5.

# Notes

- Do not turn off the power during the tape playback. Doing so may cause malfunction. Make sure to stop playback before turning off the
- After the tape is wound to the beginning or end, press  $\blacksquare \triangle$  5 to release  $\blacktriangleleft \blacktriangleleft$  or  $\blacktriangleright \blacktriangleright$  5 (except for European models).

# Recording on a tape

Check the following items before starting

- operation.
- Use a type I (normal) tape only. You cannot use any other types of tape with this
- system
- Make sure that the overwrite protection tab has not been removed. If the tab has been removed, cover the broken tab using adhesive tape.
- **1** Prepare the source you want to record.
- To record CD-DA tracks or MP3 files on a disc

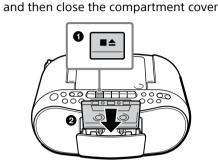
Press CD 2 and place a disc in the CD compartment. Make sure not to start playback. See "Playing a music disc."

■ To record a radio program Press RADIO FM/AM 2 repeatedly to select a band and tune to the desired station. See

"Listening to the radio."

■ To record sound from a connected optional component Press AUDIO IN 2 and connect an optional

component, and then start playback. 2 Press ■ **5** (**1**), insert a cassette tape into the cassette tape compartment (2)



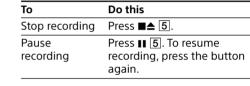
**3** Press ● **5** to start recording (the play button **⋖ 5** will depress automatically at the same time).



# • Adjusting the volume or the audio emphasis will

- not affect the recording level. • If the AM program makes whistling sound after you have press • 5 in step 3, press MODE 13 repeatedly to select the position of ISS (Interference Suppress Switch) that may decreases
- Use AC power as the power source for recording for best recording results.

#### Other operations



To record from partway through the current CD-DA track or MP3 file Press ►II 7 to pause playback where you want to start recording, then press  $\bullet$  **5**.

To record favorite CD-DA tracks or MP3 files on a disc Create a program (see "Creating your own

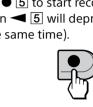
program (Program Play)"), then press ● 5 to

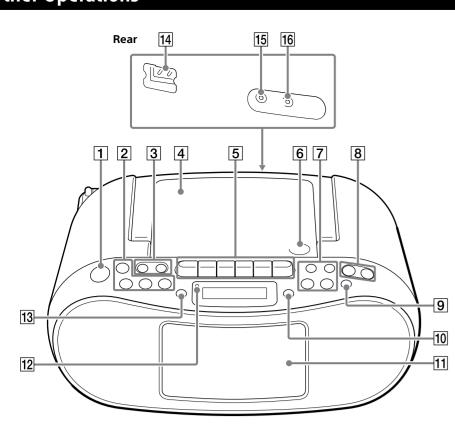
start recording. To erase recorded cassette tapes To erase a cassette tape, you need to record

silence over the previous recording 1 Press TAPE 2 to turn on the tape

tape compartment.

- function. **2** Insert a recorded tape into the cassette
- **3** Press **● 5**.
  - Erasing process starts, and previous recording is overwritten with silent data.





3 Press ◄ or ► 7 to select a track/file,

(Example: programming CD-DA tracks)

4 Repeat step 3 to program additional

**5** Press ►II 7 to start Program Play.

You can check the number of programmed

steps (tracks/files) by pressing DISPLAY 10

The created program remains available until

you open the CD compartment cover or turn

off the power of the unit. To play the same

If you try to program 26 tracks/files or more, "FULL"

Press  $\blacksquare$  7 to stop playback, and then press

To delete all tracks/files in the current

Stop playback, and then press ■ 7. "noSTEP"

appears and you can create a new program,

following the procedure "Creating your own

Presetting radio stations

You can store radio stations in the unit's memory

You can preset up to 30 radio stations, 20 for FM

**AUTO PRESET** 

2 Hold down AUTO PRESET 2 until "AUTO"

**3** Press ENTER 10 to store the station.

frequencies to higher ones.

If a station cannot be preset

**2** Tune to the desired station.

You need to preset a station with a weak signal

**AUTO PRESET** 

3 Press MANUAL PRESET 7 until "FM-xx"

4 Press PRESET + or  $- \boxed{7}$  until the preset

number for the station you want flashes

PRESET +

If another station is already assigned to the selected preset number, that station is

**5** Press ENTER 10 to store the station.

replaced by the new one.

or "AM-xx" flashes on the display.

1 Press RADIO FM/AM 2 repeatedly to

automatically

select a band.

(Example: FM)

MANUAL PRESET

on the display.

The stations are stored in memory from lower

1 Press RADIO FM/AM 2 repeatedly to

MODE 13 repeatedly until "PGM" disappears from

program again, press ►II 7.

appears on the display.

the display.

program

and 10 for AM.

select a band.

flashes on the display.

**AUTO PRESET** 

To cancel Program Play

program (Program Play)."

The track/file is programmed and the program

P -- [] { PGM

Step number

then press ENTER 10

step number appears.

- PRESET +

repeatedly

# Selecting play mode

You can set the unit to play tracks or files repeatedly or in random order while a disc is

Press MODE 13 repeatedly.



Each time you press the button, the indication changes as follows

Normal play (None)

Single repeat (**⊊** 1)

All repeat (ᢏ)

Selected folder play (□)\*

Selected folder repeat play  $(\neg, \Box)^*$ 

Shuffle play (SHUF)

Program play (PGM)

Program repeat play (←, PGM)

These functions are available only when playing MP3 files on an MP3 disc.

#### Playing tracks/files repeatedly (Repeat Play)

You can set the unit to repeatedly play CD-DA tracks on an audio CD, or MP3 files on a CD-R/ CD-RW disc in normal and program play modes.

1 Press CD 2 to turn on the CD function.

Do this



**2** Proceed as follows.

To repeat

A single track/file	<ol> <li>Press MODE ⅓ repeatedly until "♀ 1" appears.</li> <li>Press I◄◄ or ►► 7 to select a track/file that you want to repeat. When you want to specify a folder that contains MP3 files, press □ + or − ⅓ first to select a folder, and then press I◄ or ►► 7 to select a file.</li> <li>Press ►Ⅱ 7 to start Repeat Play.</li> </ol>
All tracks/files	<ol> <li>Press MODE 13 repeatedly until "         —" appears.</li> <li>Press ►II 7 to start Repeat Play.</li> </ol>
A selected folder on an MP3 disc	<ol> <li>Press MODE 13 repeatedly until "□" and "¬" appear.</li> <li>Select a folder by pressing □ + or - 3.</li> <li>Press ►II 7 to start Repeat Play.</li> </ol>
Programmed tracks/files	1 Program tracks/files (see "Creating your own program (Program Play)"). 2 Press MODE 13 until "PGM"

To cancel Repeat Play Press ■ 7 to stop playback, and then press MODE 13 repeatedly until " $\subsetneq$ " (or " $\subsetneq$  1") disappears from the display.

Play.

display.

and "←" appear on the

3 Press ►II 7 to start Repeat

### Playing tracks/files in random order (Shuffle Play)

You can set the unit to play CD-DA tracks on an audio CD or MP3 files on a CD-R/CD-RW disc in random order.



2 Press MODE 13 repeatedly until "SHUF" appears on the display.



3 Press ►II 7 to start Shuffle Play.



To cancel Shuffle Play Press ■ 7 to stop playback, and then press MODE 13 repeatedly until "SHUF" disappears from the display.

During Shuffle Play, you cannot select the previous

#### Creating your own program (Program Play) You can arrange the playing order of up to 25

tracks/files on a disc. 1 Press CD 2 to turn on the CD function.



2 Press MODE 13 repeatedly until "PGM" appears on the display.



## Listening to preset radio stations

1 Press RADIO FM/AM 2 repeatedly to select a band.

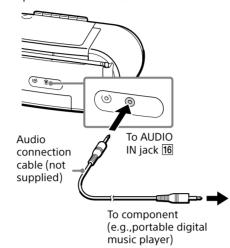


**2** Press PRESET + or - 7 to select a stored preset number for the desired radio station

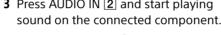


## Connecting optional components

You can enjoy the sound from an optional component, such as a portable digital music player, through the speakers of this unit. Be sure to turn off the power of each component before making any connections. For details, refer to the instruction manual of the component to be connected.



- 1 Connect the AUDIO IN jack 16 to the line output jack of the portable digital music player or other component using an audio connection cable (not supplied).
- **2** Turn the connected component on. 3 Press AUDIO IN 2 and start playing





The sound from the connected component is output from the speakers

To connect the unit to a TV or video recorder/ player, use an extension cable (not supplied) with a stereo-mini plug on one end and two phono plugs (L/R) on the other end.

- If the AUDIO IN jack 16 is connected to the monaural output jack of a digital music player, sound may not be emitted through the right
- If the AUDIO IN jack 16 is connected to the line out jack of a digital music player, distortion may occur. If the sound is distorted, connect to the headphones jack instead.
- If the AUDIO IN jack 16 is connected to the headphones jack of a digital music player, increase the volume of the digital music player, and then adjust the volume of the unit.

#### Discs that this unit CAN play • Audio CDs on the market that conform to the

- CD-DA\*1 standard
- CD-R/CD-RW discs that contain audio tracks and conform to the CD-DA\*1 standard.
- CD-R/CD-RW discs that contain MP3 files and are finalized\*2 correctly.
- <sup>1</sup> CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for
- audio CDs. \*2 Finalizing is the process to make the CD-R/ CD-RW discs playable on the consumer disc player products, and the finalizing can be enabled or disabled as optional settings during

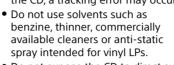
disc creation in most recording software.

#### Discs that this unit CANNOT play

- CD-R/CD-RW discs other than those recorded in audio CD format or formats conforming to ISO 9660 Level 1/Level 2 or Joliet
- CD-R/CD-RW discs of poor recording quality, CD-R/CD-RW discs with scratches or those are dirty, or CD-R/CD-RW discs recorded using an incompatible recording device
- CD-R/CD-RW discs that are unfinalized or finalized incorrectly
- CD-R/CD-RW discs that contain files created in audio formats other than MP3

### Notes on discs

• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out. If there are scratches, dirt or fingerprints on the CD, a tracking error may occur.



- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or a sticker on the CD, or scratch the surface of the CD.
- After playing, store the CD in its case.

#### **Note on DualDiscs**

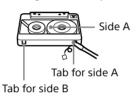
• A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

#### 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.

### Notes on cassettes

• Remove the overwrite protection tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab using adhesive tape.



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

# On safety

- laser beam used in the CD player section is harmful to eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

# On power sources

- For AC operation, use the supplied AC power cord; do not use any other cord.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time.
- When not using the batteries, remove them to avoid damage that can be caused by battery leakage or corrosion.

# On placement

- Do not leave the unit in a location near heat sources, in a place subject to direct sunlight, excessive dust or mechanical shock, or in a car subject to the direct rays of the sun.
- Do not place the unit on an inclined or
- unstable surface. • Do not place anything within 10 mm of the rear of the cabinet. The ventilation openings must be unobstructed for the unit to operate properly and prolong the life of its
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the

# On operation

components.

• If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the unit will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.

#### On handling the unit • Do not leave the CD compartment open to

avoid dust and debris contamination.

# On cleaning the cabinet

• Clean the cabinet, panel and controls using a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

If you have any questions or problems concerning your unit, consult your nearest Sony dealer.

## **Troubleshooting**

### General

unexpectedly.

There is no sound.

through speakers.

CD/MP3 player

• Clean the CD.

software.

damaged.

usual.

Radio

playback.

structure

the best reception

from the TV.

an operation button.

has not been removed.

erasing quality.

cleaning fluid

Tape

securely.

are exhausted.

The sound drops out.

• Reduce the volume

# The power does not turn on when the AC

Make sure the AC power cord is connected to

#### The power does not turn on during battery operation.

• This is not a malfunction. The unit enters

signal output. See "To use the power-

standby mode automatically after about

management function (European models

• Make sure the appropriate function is selected

for the music or sound source you want to

The CD player does not play or "noDISC"

compartment open for about an hour to dry

• The CD-R/CD-RW is blank or unfinalized.

• There are no playable MP3 files on the disc.

CD-R/CD-RW, recording device or application

• Replace all the batteries with new ones if they

• Clean the CD, or replace it if the CD is badly

• Place the unit in a location free from vibrations.

heard when using a poor quality CD-R/CD-RW

• Clean the lens with a commercially available

• The sound may drop out or noise may be

or if there is a problem with the recording

Starting playback takes more time than

• The following discs take a longer time to start

-A disc recorded with a complicated tree

-A disc that has many folders or non-MP3

The sound is weak or reception is poor.

• For FM reception, extend the antenna to its full

For AM reception, reorient the unit itself to find

length, and reorient it for best FM reception.

• If you are in a building, listen near a window.

• If a mobile phone is placed close to the unit, a

loud noise may be heard from the unit. Keep

• If you are listening to an FM program near a TV

with an indoor antenna, move the unit away

The tape does not move when you press

The ● 5 button does not function or the

tape does not start playback or recording.

• Make sure that the overwrite protection tub

Poor or distorted playback, recording or

• Clean the surfaces of the pinch roller, play/

recording head and erase-head as shown

moistened with a commercially available

below using a dry cotton swab. If the surfaces

are still dirty, clean them using a cotton swab

Pinch roller Erase-head

\* Expose the erase-head by

with your finger

available tape head demagnetizer.

may cause sound distortion.

pressing the recording button (

5) while holding down the lever

• Demagnetize the heads using a commercially

• Use a type I (normal) cassette tape. You cannot

use the type IV (metal) tapes or type II (high

After trying the suggested remedies, if the

cord again, or re-insert the batteries. If the

problem persists, consult your nearest Sony

problem persists, unplug the AC power cord or

remove all the batteries. After all the indications on the display disappear, plug in the AC power

position) tapes with this system. These types

Play/Recording

Capstan

Lever\*

• Close the cassette compartment cover

• Replace all the batteries with new ones.

• Move the unit away from nearby TVs.

the phone away from the unit.

The TV picture is unstable.

device or application software.

• There is a problem with the quality of the

is displayed even when a CD is in place.

• Place the CD with the label side up.

• Take out the CD and leave the CD

moisture condensation.

• Unplug the headphones when listening

15 minutes if there is no operation or audio

Frequency response

20 Hz - 20,000 Hz +1/-2 dB Wow and flutter

## MP3 (MPEG 1 Audio Layer-3) Bit rates: 32 kbps - 320 kbps, VBR

European, Australian, Taiwan, Thai and

AM: 531 kHz - 1,602 kHz (9 kHz step)

FM: 87.5 MHz - 108 MHz (100 kHz step) AM: 531 kHz - 1,602 kHz (9 kHz step)

Philippines, Singapore, Malaysia and India

FM: 87.5 MHz - 108 MHz (100 kHz step)

531 kHz - 1,602 kHz (9 kHz step)

Intermediate frequency FM: 300 kHz AM: 400 kHz

**Antennas** 

### Tape deck section Recording system

Fast winding time Approx. 150 s (sec.) with Sony cassette C-60 Frequency response

Stereo mini jack

Output

General Speaker

European and Australian models 230 V AC, 50 Hz (AC power supply)

9 V DC (6 R14 (size C) batteries)

Thai model 220 V AC, 50 Hz (AC power supply)

220 V AC, 60 Hz (AC power supply)

9 V DC (6 R14 (size C) batteries) Arabian model

Power consumption

Recording FM programs

Approx. 19 hours Playback of tape

circumstances of the unit or operating conditions.

Approx. 320 mm  $\times$  139 mm  $\times$  219 mm (W/H/D)

Mass Approx. 2.0 kg

#### **Supplied accessories** AC power cord (1)

Approx. 2.3 kg (including the weight of a disc,

# **Specifications**

CD player section

Compact disc digital audio system

Laser diode properties **Emission duration: Continuous** 

Laser output: Less than 44.6 uW (This output is the value measurement at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Number of channels

### Radio section

Arabian models

Korean model

87.5 MHz - 108 MHz (50 kHz step) AM: 530 kHz - 1,610 kHz (10 kHz step)

# AM: Built-in ferrite bar antenna

4-track 2-channel, stereo

# **AUDIO IN**

Full range, 8 cm dia., 4  $\Omega$ , cone type (2)

9 V DC (6 R14 (size C) batteries) Taiwan model 120 V AC, 60 Hz (AC power supply)

models 230 V - 240 V AC, 50 Hz (AC power supply)

9 V DC (6 R14 (size C) batteries) Korean model

220 V - 240 V AC, 50/60 Hz (AC power supply)

AC 12 W (approx. 0.8 W at the power saving

\*1 Measured by Sony standards. The actual

\*2 When using Sony alkaline batteries Dimensions

# batteries and a cassette tape)

Design and specifications are subject to change without notice.

# **Precautions**

# power cord is connected.

the wall outlet securely.

# • Make sure the batteries are inserted correctly.

The unit enters standby mode

Below measurable limit Supported audio format

Sampling frequencies: 32/44.1/48 kHz

## Frequency range

FM: 87.5 MHz - 108 MHz (50 kHz step)

FM: Telescopic antenna

# Type I (normal): 80 Hz - 10,000 Hz

 $\Omega$  (headphones) stereo mini jack For 16  $\Omega$  – 32  $\Omega$  impedance headphones

Power output 1.7 W + 1.7 W (at 4  $\Omega$ , 10% harmonic distortion) Power requirements

9 V DC (6 R14 (size C) batteries) Philippines, Singapore, Malaysia and India

9 V DC (6 R14 (size C) batteries)

Battery Life\*1, \*2 Playback of CD Approx. 8 hours (at a volume level of around

Approx. 13 hours (at a volume level of around battery life may vary depending on the

(incl. projecting parts)