ZS-RS60BT

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, 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 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 off. 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 is located on the bottom exterior.

Owner's Record The model and serial numbers are located on the

bottom of the unit. Record these numbers in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. ZS-RS60BT Serial No.

Important Safety Instructions 1) Read these instructions.

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

The following FCC/IC statement applies only to the version of this model manufactured for sale in the USA and Canada. Other versions may not comply with FCC/IC technical regulations.

For United States customers. Not applicable in

Canada, including in the province of Quebec.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a
- circuit different from that to which the receiver is connected Consult the dealer or an experienced radio/TV technician for help
- This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference. and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION You are cautioned that any changes or modifications

not expressly approved in this manual could void your authority to operate this equipment This equipment must not be co-located or operated

in conjunction with any other antenna or transmitter. This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure

This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).



This symbol is intended to alert the "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. This symbol is intended to alert the

user to the presence of important

operating and maintenance

literature accompanying the

(servicing) instructions in the



This graphical symbol is located on the bottom of

appliance.

Notice for the customers in Canada This device complies with Industry Canada licence-exempt RSS standard(s).

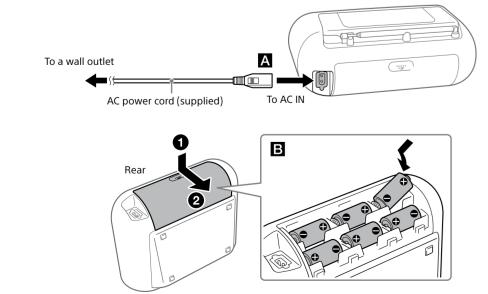
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio

transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Personal Audio System is designed to be used for playing back music sources on CDs or USB devices, transferring music to USB devices, listening to radio stations, and listening to music on BLUETOOTH devices.

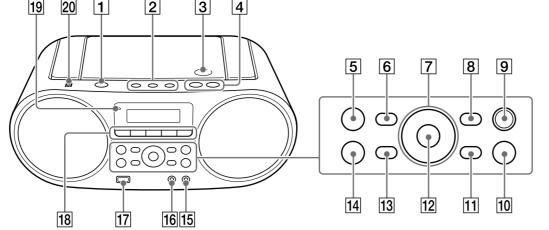
Power Sources

Connect the AC power cord A, or insert six LR14 (size C) batteries (not supplied) into the battery compartment



- Replace the batteries when the OPR/BATT indicator 19 dims, or when the unit becomes inoperable. Replace all of the batteries
- To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet. • In standby mode with the AC power cord connected, "STANDBY" appears on the display.

Basic Operations



• WMA files encoded in WMA DRM, WMA Lossless and WMA PRO formats cannot be played back

- When the total number of audio files exceeds 999

- When the total number of folders on a single disc

- When the directory level (folder depths) exceeds 8

· Folder names can be displayed with up to 32 characters,

· Characters and symbols that cannot be displayed by the

This unit conforms to version 1.0 11.2.2.2.3 and 2.4 of the

Format) for WMA files. When a file has the ID3 or WMA tag.

information, the song title, artist name, and album name

ID3 tag format for MP3 files and the WMA tag format

defined by the ASF specification (Advanced Systems

- "NO ARTIST" message instead of the artist name.

- "NO ALBUM" message instead of the album name.

and WMA tag information can be displayed up to 32

ID3 tag information can be displayed up to 64 characters

Listening to music on a USB device

You can listen to audio files stored on a USB device

Audio files in MP3, WMA and AAC formats* can be

1 Connect the USB device to the ♀ (USB) port 17.

The folder name and song title are displayed, and

then the file number and playing time appear.

.80:0

* If the playing time is longer than 100 minutes, "--:--"

(Resume Play).

Find a point in a Hold down ◄ or ► 1

is found.

When playing a VBR MP3/WMA/AAC file, playback may

When removing a USB device, hold down ■ 14 until "NO

DEV" appears, and then turn off the unit or switch to other

functions beforehand. Removing the USB device without

performing these steps may corrupt the data on the USB

Example of folder structure and playing order

follows. However, the playing order may differ from

the original order on the USB device, depending on

Folder

MP3/WMA/AAC file

The playing order of the folders and files is as

device or damage the device itself

the recording method used.

Notes on the USB device

- MP3: file extension ".mp3" - WMA: file extension ".wma

• MP3 PRO format is not supported.

cannot be played back

following cases:

exceeds 999.

played back at all.

device exceeds 5,000.

(including the "ROOT" folder).

- the folder structure is complex

- the USB device is close to capacity.

• It may take a long time before playback starts when:

Do not save non-MP3/WMA/AAC files or unnecessary

• During playback, audio files other than MP3, WMA and

• The audio formats supported by this unit are as follows:

extension but the actual file was created in a different

- AAC: file extension ".m4a," ".3gp" and ".mp4" Note that even if the file name has the correct file

audio format, this unit may produce noise or may

• WMA files encoded in WMA DRM, WMA Lossless and WMA PRO formats cannot be played back. • AAC files encoded in copyright-protected AAC format

• This unit supports the AAC-LC (AAC Low Complexity)

• This unit cannot play audio files on a USB device in the

- When the total number of audio files in a single folder

– When the total number of audio files on a single USB

When the total number of folders on a single USB

device exceeds 256 (including the "ROOT" folder).

- When the directory level (folder depths) exceeds 8

• Compatibility with all encoding/writing software is not

may produce noise or interrupted sound, or may not be

guaranteed. If audio files on the USB device were originally encoded with incompatible software, those files

These numbers may vary depending on the file and folder

folders to a USB device that contains MP3/WMA/AAC files.

AAC files are skipped even if those files are included in a

USB device

Press \Box + or - $\boxed{7}$.

skip files one by one.

Do this

again*

Playing time*

Press ►II 5. To return to

playback, press the button

Press ■ 14. When you press ►II

5 after playback is stopped,

playback starts from the point

where you stopped playback

Press ◄ or ▶ 7. You can

To skip files continuously, hold

release the button at the desired

during playback, and release the

button at the desired point.

When locating a point while

paused, press ►II 5 to start

playback after the desired point

down **I** or **I** and

2 Press USB 18 to turn on the USB function.

The volume label scrolls once, then the total

number of folders appears on the display.

(a digital music player or USB storage media).

* Files with copyright protection (Digital Rights

Management) cannot be played on this unit.

60FL DR

3 Press ►II **5** to start playback.

Total number of folders

Other operations

Pause playback

Stop playback

will be displayed. If a file does not have the tag

information, the unit displays as follows:

- File name instead of the song title.

• File names can be displayed with up to 32 characters,

including quotation marks and file extension

exceeds 256 (including the "ROOT" folder).

(including the "ROOT" folder).

including quotation marks

unit will appear as " ".

played on this unit.

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

* **II** 5 and VOL + 4 have a tactile dot

Before using the unit

To turn the power on or off Press POWER 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 18, USB 18, BLUETOOTH 18, FM/AM 18 ALIDIO IN 18 or FAVORITE RADIO STATIONS (1-3) 2 while the unit is turned off. The power turns on with the relevant function selected.

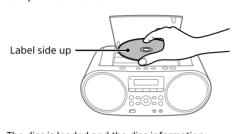
To adjust the volume Press VOL + or -4.

To listen through headphones Connect headphones to the Ω (headphones) jack

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

Playing a music disc

1 Press CD 18 to turn on the CD function. 2 Press PUSH OPEN/CLOSE **△** 3, 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. **Audio CD**

Total number of tracks



MP3/WMA disc



3 Press ►II **5** to start playback.

Track number or MP3/WMA file Playing time

When you play an MP3/WMA disc, the folder name*1 and song title are displayed before the playing time*2 appears. *1 If MP3/WMA files are present only in the root directory,

"ROOT" appears on the display. *2 If the playing time is longer than 100 minutes, "--:--"

appears on the display.

Other operations			
То	Do this		
Pause playback	Press ►II 5. To return t playback, press the butt		

Stop playback

Press ■ 14. When you press ►II 5 after playback is stopped, playback starts from the point where you stopped playback (Resume Play). Press \Box + or - $\boxed{7}$.

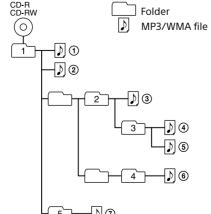
Select a folder on an MP3/WMA

Select a track/ Press ◄ or ► 1. You can skip tracks/files one by one. Find a point in a Hold down ► or ► 7 during playback, and release the button at the desired point. When locating a point while paused, press ►II 5 to start playback after the desired point is found.

To cancel the Resume Play, press **1**4 while the CD is

Resume Play is cancelled in the following cases: - When you open the CD compartment. When you turn off the power.

Example of folder structure and playing order The playing order of the folders and files is as follows. However, the playing order may differ from the original order on the disc, depending on the recording method used.



Notes on MP3/WMA discs

- When a disc is loaded, the unit reads all the files on that disc. During this time, "READING" is flashing. If there are many folders or non-MP3/WMA files on the disc, it may take a long time for play to begin or for the next MP3/ WMA file to start to play.
- We recommend that non-MP3/WMA files or unnecessary folders are excluded when creating MP3/WMA discs. • During playback, audio files other than MP3 and WMA
- files are skipped even if those files are included in a folder. • The audio formats supported by this unit are as follows: - MP3: File extension ".mp3"
- WMA: File extension ".wma" 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 noise or may
- MP3 PRO format is not supported.

- including quotation marks.
- Folder names can be displayed with up to 32 characters. • File names can be displayed with up to 32 characters,
- including quotation marks and file extension · Characters and symbols that cannot be displayed by the unit will appear as "_".
- This unit conforms to version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format for MP3 files, the WMA tag format defined by the ASF specification (Advanced Systems Format) for WMA files, and the AAC tag format for AAC files. When a file has the ID3, WMA or AAC tag information, the song title, artist name, and album name will be displayed. If a file does not have the tag information, the unit displays as follows:
- File name instead of the song title. "NO ARTIST" message instead of the artist name. "NO ALBUM" message instead of the album name.
- ID3/AAC tag information can be displayed up to 64 characters, and WMA tag information can be displayed up
- to 32 characters.

Transferring music from a disc to a **USB** device

You can transfer a whole disc (CD SYNC transfer) or the currently playing track or file (REC1 transfer) to a USB device (digital music player or USB storage

media, etc.). When transferring from a CD, the tracks are transferred as MP3 files with a sampling frequency of 44.1 kHz at 128 kbps (CBR). When transferring from an MP3/WMA disc, MP3/WMA files are transferred with the same bit rate as the original MP3/WMA files

- **1** Connect the USB device to the Ψ (USB) port $\overline{17}$. **2** Press CD 18 to turn on the CD function.
- **3** Place the disc you want to transfer in the CD compartment.

■ CD SYNC transfer To transfer a whole disc Proceed to step 4

To transfer MP3/WMA files in a specific

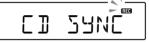
Press \triangle + or - 7 repeatedly to select the folder you want.

To transfer only your favorite tracks/files Perform step 1 to 5 of "Creating your own program (Program Play)" on the back page.

■ REC1 transfer

- To transfer a single track/file Select and start playback of the track/file you want to transfer
- 4 Press REC 9.

"REC" flashes on the display and the unit starts calculating the amount of free space on the USB



If "LOW ***M" appears on the display, there is not sufficient space on the device. To cancel the transferring, press **14**. To continue transferring anyway, proceed to step 5.

5 Press ENTER 12. Transferring starts. When transferring is completed, playback stops automatically (CD SYNC transfer) or proceeds to

To stop transferring Press ■ 14.

the next track/file (REC1 transfer).

An MP3/WMA file is created up to the point the transferring was stopped

Folder and file generation rules When first transferring to a USB device, a "MUSIC" folder and its sub folder "SONY" are created directly below the "ROOT" folder. Folders and files are generated within the "CD" folder under the "SONY" folder based on the

REC1 transfer

CD SYNC transfer					
Transferring source	Folder name	File name			
MP3/WMA	Same as the transferring source*1, 2				
CD-DA	"ALBUM001"*3	"TRACK001"*4			

ransferring ource	Folder name	File name
/IP3/WMA	"REC1"* ⁵	Same as t transferrii

- "TRACK001"*4 CD-DA *1 In Program Play mode, the folder name is "FLDRxxx," and the file name depends on the transferring source.
- *2 Up to 32 characters (including a file extension for a file name) can be assigned. *3 Folder names are assigned in sequential order up to a maximum of 256 (including the "ROOT" and "MUSIC"
- *4 File names are assigned in sequential order. *5 A new file is transferred to the "REC1" folder each time single track transfer is performed.

To erase audio files or folders from the USB

- 1 Press **I** or **I** repeatedly to select an audio file, or press 🗀 + or – 7 repeatedly to select a folder. 2 Press ERASE 11.
- "ERASE?" appears on the display. **3** Press ENTER 12. "TRACK ERASE?" or "FOLDER ERASE?" appears on the display
- 4 Press ENTER 12. The selected audio file or folder is erased, and "COMPLETE" appears on the display.

• If you start transferring in shuffle play or repeat play

to normal play • Do not remove the USB device during transferring or erase operations. Doing so may corrupt the data on the device or damage the device itself.

mode, the selected play mode is automatically changed

- While transferring, no sound is output and "HI-SPEED" appears on the display. CD-TEXT information is not transferred in the created MP3 • Transferring stops automatically if:
- the USB device runs out of space during transferring - the number of audio files and folders on the USB device reaches the limit that the unit can recogniz Non-MP3/WMA/AAC format files or sub folders in the folder are not erased.
- cannot be transferred to a USB device. Note on copyright-protected content The transferred music is limited to private use only. Use of the music beyond this limit requires permission from the

copyright holders

Radio sound and sound from an optional component

Listening to music wirelessly on a **BLUETOOTH** device

Using the BLUETOOTH connection, you can listen to music from wirelessly connected BLUETOOTH devices such as mobile phones, smartphones, music



Pairing this unit with a **BLUETOOTH** device

BLUETOOTH devices must be "paired" with each other beforehand. Once BLUETOOTH devices are paired, there is no need for pairing again, unless the pairing information is cleared. Choose the pairing method below depending on your device.

device: see Pattern A Pairing with an NFC-compatible smartphone:

Pairing with an NFC-incompatible BLUETOOTH

Pattern A

see Pattern B

Pairing with an NFC-incompatible **BLUETOOTH** device Keep the BLUETOOTH device and the unit within 1

meter (39 3/8 in) of each other for this operation. 1 Press BLUETOOTH 18 to turn on the

BLUETOOTH function. If no devices have been paired, such as when you press BLUETOOTH 18 for the first time after you purchase the unit, the unit automatically enters pairing mode, and the BLUETOOTH indicator (8) and "PAIRING" flash on the display.



When pairing with two or more **BLUETOOTH** devices Hold down BLUETOOTH (-PAIRING) 18 until two beeps are heard

- 2 Turn on the BLUETOOTH function of the BLUETOOTH device.
- **3** Perform the pairing procedure on the BLUETOOTH device to detect the unit. **4** Select "ZS-RS60BT" shown on the display of

the BLUETOOTH device.

If "ZS-RS60BT" does not appear on the device's display, repeat from step 2. **5** If Passcode* input is required on the display of the BLUETOOTH device, input "0000." The BLUETOOTH connection is established. "BT AUDIO" appears on the display.



"Passcode" may be referred to as "Passkey," "PIN code,

You can pair up to 8 BLUETOOTH devices. If the 9th BLUETOOTH device is paired, the oldest paired device will be deleted.

PIN number," or "Password

• Pairing mode of the unit is cancelled after abou 5 minutes, and the BLUETOOTH indicator (3) flashes. If pairing mode is cancelled while perform

procedure, start over from step 1. The passcode of the unit is fixed as "0000." The unit cannot be paired with a BLUETOOTH device whose

Pattern B Pairing with an NFC-compatible

smartphone By just touching the unit with an NFC-compatible smartphone, the unit is turned on and switched to the BLUETOOTH function automatically and then paired and connected to the smartphone.

Compatible smartphones Smartphones with the NFC function built-in

(OS: Android™ 2.3.3 or later, excluding Android 3.x)

What is "NFC"? NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices. such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

1 Turn on the NFC function of the smartphone. For details, refer to the operating instructions

supplied with the smartphone If your smartphone OS is Android 2.3.3 or later, but earlier than Android 4.1

Proceed to step 2. If your smartphone OS is Android 4.1 or

Proceed to step 4.

2 Download and install the app "NFC Easy Connect" on the smartphone. "NFC Easy Connect" is an original app by Sony for Android phones, and is available at the Google Play™ Store Search for "NFC Easy Connect" or scan the following two-dimensional code to download and install the free app. Communication fees are required to download the app.

and/or regions. For some smartphones, One-touch connection may be available without downloading the app "NFC Easy Connect." In that case, the operation and specifications may be different from the description here. For details, refer to the operating instructions supplied with the

The App may not be available in some countries

For the two-dimensional code: Use a two-dimensional code reader app.



3 Start the app "NFC Easy Connect" on the smartphone Make sure that the application screen is

4 Touch the unit with the smartphone. Keep touching the smartphone to the N mark 20 on the unit until the smartphone responds.

If your smartphone screen is locked, the smartphone will not function. Release the lock, then touch the smartphone to the N mark 20 again.



"BT AUDIO" appears on the display.

BI RUDIO

• If it is difficult to establish the connection, try the

If the smartphone is in a case, remove it.

• Touch the unit with the smartphone again to

If you have multiple NFC-compatible devices, just

smartphone is connected with NFC-compatible

change the BLUETOOTH connection to the unit

Check the following before operating the unit.

- The BLUETOOTH function of the BLUETOOTH

- Pairing has been completed. (See "Pairing this unit

1 Make the BLUETOOTH connection between

For an NFC-incompatible BLUETOOTH

The last connected device will be connected

For an NFC-compatible smartphone

2 Start playback of an audio source such as

details on playback operations.

press VOL - or + 4 on the unit.

Do any of following.

Turn off the unit.

on the display.

2 Press ENTER 12.

music, videos, games, etc., on the device.

To adjust the volume, set the volume of the BLUETOOTH

device or the smartphone to the moderate level, and then

To terminate a BLUETOOTH connection

BLUETOOTH device. For details, refer to the

• Touch the unit with the smartphone again to

To clear the paired device information

the reset operation, press \blacksquare 14.

disconnect (NFC-compatible smartphones only).

1 Hold down ERASE 11 until "BT RESET" appears

When the paired device information is cleared,

"COMPLETE" appears on the <u>display</u>. To cancel

operating instructions supplied with the device

• Turn off the BLUETOOTH function of the

Turn off the BLUETOOTH device

• Change the function of the unit.

Press BLUETOOTH 18 to turn on the BLUETOOTH

Touch the smartphone to the N-Mark 20 on the

Refer to the instruction manual of your device for

(One-touch connection switching).

Listening to music

with a BLUETOOTH device".)

the unit and the device.

function.

touch the smartphone to a different device to switch

the connection to that device. For example, when you

headphones, just touch the smartphone to the unit to

- Activate the app "NFC Easy Connect" and move the

smartphone slightly across the N mark 20 on the

connection

disconnect.

Follow the on-screen instructions to establish the band and kHz for the AM band. When the BLUETOOTH connection is established, • If the stereo FM reception is noisy, press FM MODE 13 repeatedly until "MONO" appears on the display. You will

lights up on the display.

To improve radio reception



mprove FM reception



RADIO STATIONS

FAVORITE RADIO STATIONS (1-3) buttons. Assign one FM or AM program for each button. 1 Press FM/AM 18 repeatedly to turn on the

- radio function and select the band "FM" or "AM."
- **3** Press and hold the desired FAVORITE RADIO STATIONS (–SET) (1-3) button 2 until you hear

a beep.

(Example: Presetting FM 87.5 MHz to number 1)

Repeat steps 1 to 3. The preset station on the button will be replaced by

FAVORITE RADIO STATIONS

Press the desired FAVORITE RADIO STATIONS (1-3)

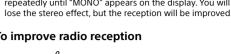
not hold down the button. If doing so, the preset on the button will be replaced by the currently tuned station.

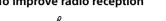
Listening to the radio

- 1 Press FM/AM 18 repeatedly to turn on the radio function and select the band "FM" or
- **2** Hold down TUNE + or $-\boxed{7}$ until the frequency digits begin to change on the display.
- The unit automatically scans the radio
- frequencies and stops when it finds a clear If you cannot tune to a station using automatic tuning mode, press TUNE + or $-\boxed{7}$ repeatedly to change the frequency step by step.

When an FM stereo broadcast is received, "ST"

• The unit of frequency of tuned stations is MHz for the FM









Presetting stations to FAVORITE

You can preset up to three favorite stations to

2 Tune to the station you want to preset.

The tuned station is preset to the selected button of FAVORITE RADIO STATIONS (1-3) and the same number as that of the button will light up on the

To change the preset station

the new one. Listening to preset stations with

button 2.

To prevent the preset from being changed by mistake, do

Using the display

Checking the information of an audio CD Press 14 twice to cancel Resume Play The total number of tracks and total playing time

appear on the display Checking MP3/WMA/AAC file information Press DISPLAY 6 repeatedly while playing an

MP3/WMA file on the disc or an MP3/WMA/AAC file on the USB device The display changes as follows:

 \rightarrow Song title (\square)*1, 2 Artist name (**1**)*

Album name ()

- Current file number and playing time*3 $^{\star 1}$ If the file does not have corresponding ID3, WMA or AAC tag information, the file name, "NO ARTIST," and "NO ALBUM" scroll on the display instead of the song title artist name, and album nam
- *2 The function name is displayed for 2 seconds before the song title appears.
- *3 The artist name or album name will change to this in a few seconds.

Checking the connected BLUETOOTH device name

Press DISPLAY 6 while connecting the **BLUETOOTH** device Checking the radio information

Press DISPLAY 6 repeatedly while listening to the radio.

The display changes as follows:

Preset number* $^{1,2} \longleftrightarrow$ Frequency

*1 A preset number is displayed only when you are listening to the preset radio station *2 The display automatically returns to the frequency display after 2 seconds have elapsed

Selecting play mode

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

Press PLAY MODE 13 repeatedly.



Each time you press the button, the indication

changes as follows: → Normal play (None) Single repeat (1

All repeat (🗲

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

Selected folder play (🗀)*

Shuffle play (☎) Program play (PGM)

Program repeat play (♠, PGM)

These functions are available only when playing MP3/ WMA files on an MP3/WMA disc or MP3/WMA/AAC files

Playing tracks/files repeatedly (Repeat Play)

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

1 Press CD 18 or USB 18 to turn on the CD or **USB** function

2 Proceed as follows.

Do this To repeat 1 Press PLAY MODE 13 A single track/ repeatedly until "← 1" appears. 2 Press **◄** or **▶▶ 7** to select a track/file that you want to repeat. 3 Press ►II 5 1 Press PLAY MODE 13 All tracks/files repeatedly until "←" appears. 2 Press ►II 5. A selected folder 1 Press PLAY MODE 13 repeatedly until "🗀" and "🖙" on an MP3/WMA disc or USB appear. 2 Select a folder by pressing 🗀 + device

3 Press ►II 5. 1 Program tracks/files (see Programmed "Creating your own program tracks/files (Program Play)"). 2 Press PLAY MODE 13 until "PGM" and "

appear on the display. 3 Press ►II 5.

To cancel Repeat Play Press ■ 14 to stop playback, and then press PLAY MODE $\boxed{13}$ repeatedly until " \subsetneq " (or " \subsetneq 1") disappears

from the display. Playing tracks/files in random order (Shuffle Play)

You can set the unit to play CD-DA tracks on an audio CD, MP3/WMA files on a CD-R/CD-RW disc or MP3/WMA/AAC files on a USB device in random

1 Press CD 18 or USB 18 to turn on the CD or

USB function 2 Press PLAY MODE 13 repeatedly until "△"

appears on the display **3** Press ►II 5 to start Shuffle Play.

To cancel Shuffle Play Press 14 to stop playback, and then press PLAY

MODE 13 repeatedly until "≤" disappears from the display. During Shuffle Play, you cannot select the previous track/file

by pressing ► 7

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

tracks/files on a disc/USB device.

1 Press CD 18 or USB 18 to turn on the CD or **USB** function

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

3 Press **◄** or **▶ 7** to select a track/file. When you want to specify a folder that contains MP3/WMA/AAC files, press \Box + or - $\boxed{7}$ first to select a folder, and then press ◄ or ▶ 7 to select a file.

4 Press ENTER 12. The track/file is programmed. The program step number appears, followed by

the total playing time

(Example: audio CD)

SIEP Step number

Last programmed track number

Total playing time

5:07_{PGN}

* "--:--" appears when programming an MP3/WMA disc/USB device or when the total playing time is longer than 100 minutes

5 Repeat steps 3 and 4 to program additional tracks/files 6 Press ►II 5 to start Program Play. The created program remains available until you

open the CD compartment, connect another USB device or turn off the power of the unit. To play the same program again, press ►II 5.

If you try to program 26 tracks/files or more, "FULL" flashes on the display.

To display programmed track/file information After creating your own program, you can check information about programmed tracks/files

Press DISPLAY 6 repeatedly and the display

changes as follows Total number of steps ← Last programmed track/ file number and the total playing time*

* "--:-" appears for MP3/WMA discs and USB devices

To cancel Program Play Press ■ 14 to stop playback, and then press PLAY MODE 13 repeatedly until "PGM" disappears from

To delete all tracks/files in the current

program Stop playback, and then press ■ 14. "NO STEP" appears and you can create a new program following the procedure "Creating your own program (Program Play).

Presetting radio stations

You can store radio stations in the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM.

the display

1 Press FM/AM 18 repeatedly to turn on the radio function and select the band "FM" or

2 Hold down FM/AM 18 until "AUTO" flashes on the display.



The stations are stored in memory from lower frequencies to higher ones.

If a station cannot be preset automatically You need to preset a station with a weak signal

1 Press FM/AM 18 repeatedly to select a band.

2 Tune to the desired station. **3** Hold down ENTER 12 until "FM-xx" or "AM-xx"

flashes on the display (Example: FM)



4 Press PRESET + or - $\boxed{7}$ until the preset number for the station you want flashes on the display

5 Press ENTER 12 to store the station. If another station is already assigned to the selected preset number, that station is replaced by the new one.

—The AC power cord is unplugged.

Listening to preset radio stations

1 Press FM/AM 18 repeatedly to turn on the

preset number for the desired radio station.

Using the Sleep Timer

You can set the unit to turn off automatically after a set time has elapsed.

1 Press SLEEP 8. The default setting ("90") appears and the "SLEEP" indicator lights up on the display

> $90 \longrightarrow 60 \longrightarrow 30 \longrightarrow 15$ — OFF **←**——

about 4 seconds You can check the time left until the unit turns off by

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

1 Connect the AUDIO IN jack 15 to the line output jack of the portable digital music player or other component using an audio

2 Turn the connected component on. **3** Press AUDIO IN 18 and start playing sound on

the connected component The sound from the connected component is output from the speakers. To connect the unit to a TV or video recorder/

The preset radio stations remain in the unit's memory even

radio function and select the band "FM" or

2 Press PRESET + or -7 to select a stored

2 Press SLEEP **8** repeatedly to select the desired setting.

Each time you press the button, the duration (in minutes) changes on the display, and the selected setting is confirmed automatically after

pressing SLEEP 8 again after setting the sleep times

Connecting optional components

component to be connected.

connection cable (not supplied).

player, use an extension cable (not supplied) with

a stereo-mini jack on one end and two phono

Additional Information

Compatible devices

Compatible USB devices Compatibility requirements for the USB devices are as follows. Before using a device with this unit,

check that it meets the requirements. • Compliance with USB 2.0 (Full Speed)

 Supports Mass Storage mode* * Mass Storage mode is a mode that allows a USB device to become accessible to a host device, enabling file transfers. Most USB devices support Mass Storage

Notes on the USB device

• When a USB device is connected, the unit reads all the files on the device. If there are many folders or files on the device, it may take a long time for the unit to finish

• Do not connect a USB device to the unit through a USB • With some connected USB devices, after an operation is performed, there may be a delay before it is performed by

this unit. • This unit may not support all the functions provided with a connected USB device • The playback order on this unit may differ from the

Compatible BLUETOOTH devices Compatibility requirements for the devices are as

playback order on a connected USB device

follows. Before using a device with this unit, check that it meets the requirements Devices must conform to BLUETOOTH Standard

version 2.1 + EDR • Devices must support A2DP (Advanced Audio

Distribution Profile) and AVRCP (Audio/Video

Remote Control Profile) NFC capability (required only when using the NFC) pairing function of the unit). For the latest information on compatible BLUETOOTH devices, including NFC-compatible

smartphones, check the websites below. For customers in the USA:

http://esupport.sony.co For customers in Canada: http://sony.ca/support

http://fr.sony.ca/support

What is BLUETOOTH wireless

technology? BLUETOOTH wireless technology is a short-range wireless technology that enables wireless data communication between digital devices, such as a computer and digital camera. BLUETOOTH wireless technology operates within a range of about 10 m (33 feet).

Connecting two devices as necessary is common, but some devices can be connected to multiple devices at the same time You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology. For example, you can use such a device in a bag or

pocket. BLUETOOTH standard is an international standard supported by thousands of companies all over the world, and employed by various companies worldwide

Maximum communication range Maximum communication range may shorten under

the following conditions. - There is an obstacle such as a person, metal, or wall between the unit and BLUETOOTH device. A wireless LAN device is in use near the unit.

- A microwave oven is in use near the unit. - A device that generates electromagnetic radiation is in use near the unit.



Optimal performance Limited performance

Interference from other devices Because BLUETOOTH devices and wireless LAN (IEEE802.11b/g/n) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid

connection if the unit is used near a wireless LAN device. In such a case, perform the following. -Use the unit at least 10 m (33 feet) away from the wireless LAN device.

- If the unit is used within 10 m (33 feet) of a wireless LAN device, turn off the wireless LAN

- Use the BLUETOOTH device as close to the unit as

Interference to other devices Microwaves emitting from a BLUETOOTH device may affect the operation of electronic medical devices. Turn off the unit and other BLUETOOTH devices in the following locations, as it may cause an accident

- where inflammable gas is present, in a hospital, train, airplane, or a gas station - near automatic doors or a fire alarm

• To be able to use the BLUETOOTH function, the BLUETOOTH device to be connected requires the same profile as the unit's. Note also that even if the same profile exists, devices may vary in function depending on their specifications. • Due to the characteristic of BLUETOOTH wireless

echnology, the sound played on the unit is slightly delayed from the sound played on the BLUETOOTH device during listening to the music. This unit supports security capabilities that comply with the BLUETOOTH standard to provide a secure connectio when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless

• We do not take any responsibility for the leakage of

A device featuring the BLUETOOTH function is required to

connected device conforms to the above mentioned

information during BLUETOOTH communication

conform to the BLUETOOTH standard specified by

Bluetooth SIG, and be authenticated. Even if the

BLUETOOTH standard, some devices may not be connected or work correctly, depending on the features or specifications of the device. Noise or sound skips may occur depending on the BLUETOOTH device connected with the unit, the communication environment or the usage environment

Precautions

Discs that this unit CAN play

Audio CD (CD-DA*1 tracks)

• CD-R/CD-RW that contains MP3/WMA files and is finalized*2 correctly.

*1 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

Discs that this unit CANNOT play CD-R/CD-RW other than those recorded in audio

during disc creation in most recording software.

There is no sound. CD format or formats conforming to ISO 9660 • Make sure the appropriate function is selected for Level 1/Level 2 or Joliet • CD-R/CD-RW of poor recording quality, CD-R/ Unplug the headphones when listening through

CD-RW with scratches or that is dirty, or CD-R/ CD-RW recorded using an incompatible recording • CD-R/CD-RW that is unfinalized or finalized

incorrectly

Notes on discs • Clean the CD with a cleaning cloth if the disc is dirty. Wipe the disc from the center out. If there are scratches, dirt or fingerprints on the disc, a

tracking error may occur. • Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs. • 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

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

mates DVD recorded material on one side with

among those discs, there are some that do not conform to the CD standard and may not be

playable by this product. On safety • As the laser beam used in the CD player section is harmful to eyes, do not attempt to disassemble

· Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.

• Discs with non-standard shapes (e.g., heart,

square, star) cannot be played on this unit.

the casing. Refer servicing to qualified personnel

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

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 • Do not place anything within 10 mm (13/32 in) of

the rear of the cabinet. The ventilation openings

properly and prolong the life of its components.

• Since a strong magnet is used for the speakers,

must be unobstructed for the unit to operate

sources, in a place subject to direct sunlight.

keep personal credit cards using magnetic coding or spring-wound watches away from the unit to

prevent possible damage from the magnet. On operation • 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

If you have any questions or problems concerning

your unit, consult your nearest Sony dealer.

Troubleshooting

General

speakers.

The sound is noisy.

communication.

CD is in place.

Clean the CD.

condensation

CD/MP3/WMA player

matching the polarities.

OPR/BATT indicator 19 dims.

The power does not turn on.

Replace all the batteries with new ones when the

the music or sound source you want to listen to.

equipment emitting radio waves near the unit? If

away from such devices. Devices such as mobile

so, move the unit and the BLUETOOTH device

The CD player does not play even when a

Take out the CD and leave the CD compartment

• There are no playable MP3/WMA files on the disc.

• There is a problem with the quality of the CD-R/

• Replace all the batteries with new ones when the

"NO CD" appears when the disc is loaded.

• No disc is set in the CD compartment. Set a disc.

• The CD may have a reading problem. Replace the

• The CD may be placed upside down. Place the

An unplayable disc (BD, etc.) is loaded. Replace

"NO TRACK" flashes on the display when

• No audio files recorded in supported formats, or a

"DISC ERR" appears when the disc is loaded.

• The CD may have scratches. Replace the disc.

An unplayable disc (DVD, etc.) is loaded. Replace

• The CD may have a reading problem. Replace the

A blank disc may be set in the CD compartment.

• Place the unit in a location free from vibrations.

• The sound may drop out or noise may be heard

when using a poor quality CD-R/CD-RW or if there

• Clean the lens with a commercially available

is a problem with the recording device or

Starting playback takes more time than

• The following discs take a longer time to start

- A disc recorded with a complicated tree

The USB device does not work properly.

following problems may occur.

- Playback is not possible.

- The sound skips.

turns off automatically

nearest Sony dealer.

Then turn on the unit.

Then turn on the unit again.

and use them to play on this unit.

There is no sound.

 Ψ (USB) port 17.

following cases

starts.

- There is noise.

- The USB device is not recognized.

- The sound output is distorted.

"OVER CURRENT" appears and the unit

• An abnormal level has been detected in the

electrical current from the Ψ (USB) port 17. In this

17 and reconnect the USB device, and then turn

on the unit again. If this problem persists after

turning on the power of the unit, contact your

• The USB device may be connected incorrectly.

Turn off the unit and reconnect the USB device.

There is noise, skipping, or distorted sound.

• Turn off the unit and reconnect the USB device.

• The music data itself contains noise, or the sound

is distorted. Noise may have entered during the

creation of audio files. Try re-creating audio files

The USB device cannot be connected to the

• The connector on the USB device or the USB cable

is being inserted backwards. Insert it to the Ψ

"READING" is displayed for an extended

• The reading process can take a long time in the

- There are many folders or files on the USB

To avoid the above problems, we recommend that

- Keep the total number of files per folder to 100

corrupted. Send the music data to the USB device

• This unit can display only numbers and letters of

• An error occurred during transferring. Turn off the

unit and remove the USB device from the unit.

device. If there is insufficient space for the

- Check that the data to be transferred is not

- Check that the file format to be transferred is

If the message still persists, contact your nearest

• Turn off the unit and reconnect the USB device,

• The USB device is not functioning properly. Refer

• Turn off the unit and reconnect the USB device. Play does not start from the first track.

to the USB device operation manual for details on

transferring, delete any unnecessary files or

- Check the remaining storage space on the USB

time, or it takes a long time before playback

(USB) port 17 in the correct direction.

- The file structure is complex

- The internal memory is fragmented

you adhere to the following guidelines:

• The data stored on the USB device may be

the alphabet. Other characters will not be

- Keep the total number of folders on a USB

The memory is almost full.

device to 100 or less.

or less.

Erroneous display

"REC ERROR" appears.

Then check the following:

compatible with the unit

The USB device is not recognized.

how to deal with this problem.

Set the play mode to Normal Play.

folders

corrupted

Sony dealer.

then turn on the unit.

Play does not start.

• If you connect an incompatible USB device, the

- File or folder names are not displayed on this

- A disc that has many folders or non-MP3/WMA

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

The CD may be dirty. Clean the disc.

file to be played back has an unsupported file

CD-RW, recording device or application software.

open for about an hour to dry moisture

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

• Is someone using a mobile phone or other

phones, etc., can affect BLUETOOTH

Place the CD with the label side up.

OPR/BATT indicator 19 dims.

disc with the label side up.

the disc.

the disc.

The sound drops out.

application software.

Reduce the volume

damaged.

blower

usual.

playback.

USB device

the disc is loaded.

• Make sure the AC power cord is connected to the

- WMA: file extension ".wma" - AAC: file extension ".m4a," ".3gp" and ".mp4" • The audio files may have been created in formats

wall outlet securely. • Make sure the connector of AC power cord is inserted into the AC IN jack securely.

other than MP3/WMA/AAC formats • The USB storage device uses a file system other Check if the batteries are inserted correctly, than FAT16 or FAT32.*

> · The files are encrypted or protected by passwords. * This unit supports FAT16 and FAT32, but some USB storage media may not support both file systems

MP3/WMA/AAC files cannot be played

• The audio files may have inappropriate file

extensions. The file extensions supported by this

For details, refer to the operation manual of the USB storage device in question or contact the manufacturer

BLUETOOTH device

unit are as follows:

- MP3: file extension ".mp3"

There is no sound.

• Make sure that this unit is not too far from the BLUETOOTH device (or smartphone), or that this unit is not receiving interference from a wireless LAN, another 2.4 GHz wireless device, or a microwave oven

• Check that the BLUETOOTH connection was completed properly between this unit and the BLUETOOTH device (or smartphone).

• Perform pairing again (See "Pairing this unit with a BLUETOOTH device").

 Keep away from metal objects or surfaces. • Make sure that the BLUETOOTH function is

activated on the BLUETOOTH device (or smartphone).

The sound skips or the correspondence distance is short If a device that generates electromagnetic

radiation, such as a wireless LAN, other BLUETOOTH device(s), or a microwave oven is nearby, move away if possible. Or use the device and the unit away from such sources.

• Remove any obstacle between this unit and the

device or move the device and the unit away from the obstacle • Locate this unit and the device as close to each

other as possible

• Re-position this unit. • Try using the BLUETOOTH device or smartphone in another position.

A connection cannot be established. • Depending on the device to be connected, it may require some time to start communication. • Perform pairing again (See "Pairing this unit with a BLUETOOTH device"). • Check that the BLUETOOTH device is compatible

with this unit. For the latest information on

• Bring the BLUETOOTH device closer to the unit.

compatible BLUETOOTH devices, check the information on the website. The URL is listed under "Compatible BLUETOOTH devices."

Pairing fails

• Delete the model name of this unit from the BLUETOOTH device and perform pairing again (See "Pairing this unit with a BLUETOOTH device"). • Check that the BLUETOOTH device is compatible

information on the website. The URL is listed under "Compatible BLUETOOTH devices." Pairing using the NFC function fails. • Try pairing manually (See "Pairing this unit with a

BLUETOOTH device"). Some NFC-compatible

smartphones may not be paired using the NFC

with this unit. For the latest information on

compatible BLUETOOTH devices, check the

function of this unit, depending on the features or specifications of the device. • Relaunch "NFC Easy Connect" and move the smartphone slowly over the N mark 20.

compatibility requirements (See "Compatible

The sound is weak or reception is poor.

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

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

Replace all the batteries with new ones.

• Check that the smartphone meets the

smartphones"). Radio

 Move the unit away from nearby TVs. • For FM reception, extend the antenna to its full ength, and reorient it for best FIVI rece AM reception, reorient the unit itself to find the

loud noise may be heard from the unit. Keep the phone away from the unit.

The TV picture is unstable.

consult your nearest Sony dealer.

• If you are listening to an FM program near a TV with an indoor antenna, move the unit away from the TV. After trying the suggested remedies, if the 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 cord again, or

re-insert the batteries. If the problem persists,

Specifications

CD player section

Laser diode properties

Number of channels

Frequency response

Wow and flutter

Compact disc digital audio system

Emission duration: Continuou

20 Hz - 20,000 Hz +1/-2 dB

BLUETOOTH Specification Version 2.1 + EDR

BLUETOOTH Specification Power Class 2

2.4 GHz band (2.4000 GHz - 2.4835 GHz)

A2DP (Advanced Audio Distribution Profile) AVRCP*3 (Audio/Video Remote Control Profile)

BLUETOOTH communication between devices

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

AM: 530 kHz - 1,710 kHz (10 kHz step)

*1 The actual range will vary depending on factors such as

obstacles between devices, magnetic fields around a

microwave oven, static electricity, reception sensitivity,

*3 Some operations may not be available depending on the

*4 Codec: Audio signal compression and conversion format

Type A, maximum current 500 mA, USB 2.0 Full Speed

aerial performance, operating system, application software

*2 BLUETOOTH standard profiles provide the specifications for

Line of sight approx. 10 m (33 feet)*

Below measurable limit

Maximum communication range

Supported BLUETOOTH Profiles*2

SBC (Subband Codec)

BLUFTOOTH section

Frequency band

Modulation method

Supported codec*4

Radio section

Intermediate frequency

Stereo mini jack

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

(headphones) stereo mini jack

Supported audio formats

MP3 (MPEG 1 Audio Layer-3):

32 kbps - 320 kbps, VBR

48 kbps – 192 kbps, VBR

8 kbps — 320 kbps, VBR

* USB function only

32/44.1/48 kHz

32/44.1/48 kHz

32/44.1/48 kHz

Power consumption

Battery Life*1, *2

FM reception

Playback of CD Approx. 9 hours

Approx. 26 hours BLUETOOTH

Approx. 13 hours

Supplied accessories

or operating conditions

Playback of USB device

* USB function only

Full range, 8 cm (3 $^{1}/_{4}$ in) dia., 6 Ω , cone type (2)

2.0 W + 2.0 W (at 6 Ω , 10% harmonic distortion)

120 V AC, 60 Hz (AC power supply)

Approx. 11 hours (at 100 mA load)

*2 When using Sony alkaline batteries

 $8^{1/2}$ in) (W/H/D) (incl. projecting parts)

SONY®

rights and obligations with respect to the software

The Address of the Laredo Fulfillment Center is:

LIMITED WARRANTY (U.S. Only)

Sony Electronics Inc. ("Sony") warrants this product against defects in material or workmanship for the time

periods and as set forth below when purchased directly from Sony or a Sony Retailer. Pursuant to this Limited

Warranty, Sony will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product

that has been returned to its original specifications. In the event of a defect, these are your exclusive rem

Term: For a period of one (1) year from the original date of purchase of the product, Sony will, at its option, repair

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover

technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed

software Limited Warranty. Please refer to the End User License Agreements included with the Product for your

Instructions: To obtain warranty service, you must deliver the product, freight prepaid, in either its original

packaging or packaging affording an equal degree of protection to the Sony authorized service facility specified.

It is your responsibility to backup any data, software or other materials you may have stored or pre-served on your unit. It is likely that such data, software, or other materials will be lost or reformatted

during service and Sony will not be responsible for any such damage or loss. A dated purchase receipt from Sony or a Sony Retailer is required. For specific instructions on how to obtain warranty service for your

Laredo Fulfillment Cente

10227 Crossroads Loop Suite B

Visit Sony's Web Site

www.sony.com/support

Or call the Sony Customer Information Service Center

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

Repair / Replacement Warranty: This Limited Warranty shall apply to any repair replacement part or replace-

ment product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary

consumer use; it does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, misuse, limitations of technology, or modification of or to any part of

he Sony product or product purchased from other than Sony or a Sony Retailer. To determine if a retailer is part

of the Sony Retailer Network, please contact Sony's Customer Service Call Center or go to www.sony.com/

support. This Limited Warranty does not cover Sony products sold AS IS or WITH ALL FAULTS or consumables

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited

D455714606

Warranty gives you specific legal rights and you may have other rights which vary from state to state.

(such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered

longer. Any parts or product replaced under this Limited Warranty will become the property of Sony.

or removed from the product. This Limited Warranty is valid only in the United States.

IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.

or replace with new or refurbished product or parts, any product or parts determined to be defective

with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part

Approx. 2.3 kg (5 lb 1 1/8 oz) (incl. batteries)

Design and specifications are subject to change without

*1 Measured by Sony standards. The actual battery life

may vary depending on the circumstances of the unit

Approx. 320 mm \times 133 mm \times 215 mm (12 5 /8 in \times 5 1 /4 in \times

9 V DC (6 LR14 (size C) batteries

0.9 W (during standby mode)

WMA:

General

Sampling frequencies MP3 (MPEG 1 Audio Layer-3):

For 16 Ω – 32 Ω impedance headphones

FM: 128 kHz

AM: 45 kHz

AUDIO IN

⊈ (USB) port

Laser output: Less than 44.6 μW

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION The United States model only)

With 6-ohm loads, both channels driven from 150 Hz —

10,000 Hz; rated 1.5 W per channel-minimum RMS power with no more than 10 % total harmonic distortion in AC

(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.)

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