

Portable MiniDisc Player

operating instructions

Basic edition	Page 12
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Thank you for your purchase.



If safety precautions are not followed when using electrical appliances, it can lead to fires or personal injury.

This instruction manual contains important safety precautions and instructions for handling the product to prevent accidents. Please read this manual carefully and use the product safely. After reading, please keep it in a place where you can refer to it at any time.



MZ-NH3D



For safety

Sony products are designed with safety in mind. However, all electrical products can be dangerous if used incorrectly, potentially causing fires, electric shocks, or other personal injuries. To prevent accidents, please be sure to follow the instructions below.



Follow safety precautions.

Please carefully read the precautions on pages 8-11. These contain general product precautions.

Inspect regularly

Once a year, check the AC power adapter to see if there is any dust accumulated between the plug and the outlet, and whether it is being used while malfunctioning.

If it breaks down, don't use it.

If you notice any malfunctions or damage to the AC power adapter or charging stand, please contact the store where you purchased the product or a Sony service center immediately for repair.

If something goes wrong...

If you hear strange noises or smell strange smells, or if smoke comes out...



b

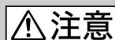
1. Turn off the power.
2. AC power adapters
 - Unplug it from the power outlet /
 - Unplug the dedicated USB cable from the computer.
3. Request repairs from the store where you purchased the product or from a Sony service center.

Meaning of Warning

Labels: The instruction manual and product use the following warning labels. Please carefully understand the meaning of the labels before reading the main text.



Failure to follow the precautions on this sign may result in personal injury, such as death or serious injury, due to fire or electric shock.



Failure to follow the precautions on this sign may result in electric shock or other accidents, causing injury or damage to surrounding property.

A warning symbol



火災



感電

Symbols that prohibit actions



禁止



接触禁止



ぬれ手禁止



分解禁止

Symbols that indicate actions



強制

Regarding Voluntary Regulations

on Radio Interference: This device is a Class B information technology device based on the standards of the Voluntary Control Council for Interference (VCCI) . While this device is intended for use in a home environment, using it in close proximity to radio or television receivers may cause reception interference. Please handle this device correctly according to the instruction manual.

• We cannot compensate for any loss of data if recording or downloading is impossible due to malfunctions of this product or your computer, or if music data is corrupted or deleted. • For recordings that cannot be re-recorded, please be sure to do a test recording beforehand. • Recordings you make may not be used without permission from the copyright holder, except for personal enjoyment, as stipulated by copyright law. Please note that the price of this product includes a private recording compensation fee as stipulated by copyright law. (Contact: Private Recording Compensation Fee Management Association Tel. 03-5353-0330)

• "Walkman" and "WALKMAN" are registered trademarks of Sony Corporation representing headphone stereo products. •  and its logo are registered trademarks of Sony Corporation. • MD Simple Burner, OpenMG, Hi-MD, Net MD, ATRAC, ATRAC3,

ATRAC3plus and its respective logos are trademarks of Sony Corporation.

• Microsoft, Windows, Windows NT, and Windows Media are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

What this device can do and the included manual

This page explains what you can do with a portable MD player and provides a manual.

Yes, we do. Please refer to the information below and use the necessary manual.

Learn about Hi-MD

"Hi-MD" is a new MD format that is an evolution of the conventional MD format.
is.

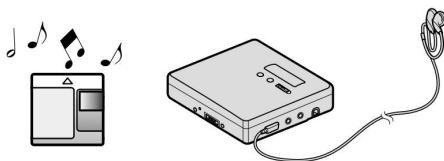


"You can do this with a Hi-MD Walkman."

The main features of the Hi-MD Walkman and how it differs from conventional MD Walkmans.
I'm explaining the difference.

Use this device

In addition to discs recorded with conventional MD devices, discs recorded with Hi-MD devices
You can play and enjoy it.



Instruction Manual (This document)

This document explains the general operation of this device.

If a problem occurs or a message is displayed while operating this device...

Solutions are also provided.

When you have a problem or want to know **more**

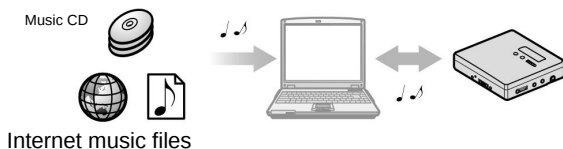
See the "Troubleshooting" and "MD Q&A" sections in the instruction manual (this book).

Please see (starting from page 45).

Use the included software on your computer.

You can transfer music data between the unit and your computer using the included SonicStage software .

You can record music data onto the device using MD Simple Burner.



This installation and operation

guide explains how to

use the software included with **SonicStage Ver.2.1**
and **MD Simple Burner Ver.2.0 for MD Walkman**
(SonicStage Ver.2.1/MD Simple Burner Ver.2.0).



SonicStage Ver.2.1 Help

This is an electronic manual that you view on your computer screen. It's included in the accompanying software , SonicStage.

This guide provides more detailed instructions on how to use SonicStage than the "Installation and Operation Guide." It can also be used to resolve any issues you encounter while using SonicStage.



This is **the personal audio customer support** website.

You can find the latest support information
for this device and its included software, as well as tips on how
to use your Hi-MD Walkman. [http://www.sony.co.jp/
support-pa/](http://www.sony.co.jp/support-pa/)

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Basic edition

prepare

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Use by connecting to a computer

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When you're in trouble - Q&A

When you're in trouble

MD Q&A

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Failure to follow the precautions below may result in serious injury due to fire or electric shock.

Do not use while driving .

Never use headphones or earphones, perform fine motor operations, or look at the display screen while driving a car, motorcycle, or other vehicle. This can cause traffic accidents.

- Also, when using it while walking, please pay close attention to the surrounding traffic and road conditions to prevent accidents.



Do not allow water or foreign objects inside.

If water or foreign objects enter the device, it may cause fire or electric shock. If water or foreign objects do enter the device, immediately turn off the switch, unplug the AC power adapter from the outlet, disconnect the dedicated USB cable from the computer, and contact the store where you purchased the product or Sony's service center.



AC adapters for domestic models (excluding world models) are for use in Japan only. Please use them with a 100V AC power supply. Using them with different power voltages overseas may cause fire or electric shock.



When thunder starts, do not touch the power plug, as this could cause electric shock.



Using charging stations, AC power adapters, car battery cords, or other non-designated devices may cause rupture, leakage, or overheating, leading to fire, injury, or damage to the surrounding area.



Do not open the main unit or its accessories unnecessarily . Opening or modifying them unnecessarily can cause fire or electric shock.



Do not touch the AC power adapter or charging stand with wet hands, as this may cause electric shock.



If the main unit, AC power adapter, or charging stand is not used while covered with cloth or other materials, heat can build up, causing the case to deform or potentially leading to a fire.



Do not charge or leave the device near a fire or in direct sunlight, as this can cause the internal temperature to rise and lead to fire or malfunction.



Do not place metal objects on the charging stand. If the charging stand's terminals come into contact with metal, a short circuit may occur, causing it to overheat.



Do not carry or store the device with metal objects. Carrying or storing the device with metal objects such as coins, keys, or necklaces may cause a short circuit and overheating.





Failure to follow the precautions below may result in injury or damage to surrounding property.

Avoid listening at high volumes for extended periods.

Listening at excessively loud volumes for long periods can negatively impact your hearing. This is especially important when using headphones. Listen at a volume where you can still respond if called upon.



禁止

Avoid turning the volume up too high from the start, as sudden loud noises can damage your hearing. Increase the volume gradually. This is especially important when listening to low-noise digital devices such as MDs, CDs, and DATs with headphones.



禁止

Do not touch the AC power adapter or charging stand, or the product itself, for extended periods while it is powered on. Prolonged contact of skin with the product can cause low-temperature burns.



禁止

Safety precautions regarding batteries

To avoid serious injury or blindness due to leakage, rupture, overheating, fire, or accidental ingestion, please be sure to follow the instructions below.



When a rechargeable battery leaks

If the rechargeable battery leaks, do not touch the fluid with your bare hands. The fluid may remain inside the device, so please contact our Customer Support Center or Sony Service Center.

If the liquid gets into your eyes, do not rub them, as it may cause blindness. Immediately rinse thoroughly with clean water such as tap water and seek medical attention immediately. If the liquid gets on your body or clothes, it may cause burns or injuries, so immediately wash it off with clean water. If you experience any inflammation or injury on your skin, consult a doctor.



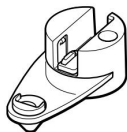
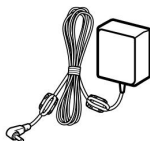
About rechargeable batteries

- Insert the correct + and - according to the markings on the device.
 - Do not charge with anything other than the designated charging stand or AC power adapter.
 - If a carrying case for rechargeable batteries is included, always place the batteries in the carrying case.
- Carry and store with care.
- Do not put in fire. Do not disassemble or heat.
 - Do not use, store, or leave in high-temperature places such as near fire, in direct sunlight, or inside a car in direct sunlight. do not.
 - Do not carry or store with metal objects such as coins, keys, or necklaces. Avoid short circuits.
 - Do not peel off or damage the outer vinyl tube.
 - Do not use leaking batteries.
 - Do not use rechargeable batteries other than the specified type.
 - Remove batteries when they are completely depleted. Also remove them when not using the device for extended periods.
 - When not using the device for a long time, remove the rechargeable batteries and store them in a cool, dry place. When storing, do not store the rechargeable batteries when they are completely depleted or 100% charged to prevent deterioration of the batteries .

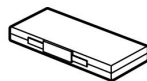
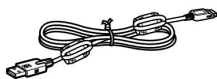
Check the included accessories.

- AC Power Adapter
- Charging stand
- Remote control (Kanji characters)
- Headphones

(Supports Kana display)



- Dedicated USB cable (L)
- Dedicated USB cable (S)
- Rechargeable lithium battery case -on-battery LIP-4WM
- Rechargeable



- Ferrite core

For instructions on how to use it, please refer to the separate document, "How to Use the Included Ferrite Core."

- Carrying pouch
- MZ-

NH3D instruction manual •CD-

ROM (SonicStage Ver.2.1/MD Simple Burner Ver. 2.0) * •Installation and operation guide SonicStage Ver. 2.1/MD

Simple Burner Ver. 2.0 for MD Walkman •Warranty card •Sony customer support information

- Request

for customer registration

* Do not play the CD-ROM on a music CD player.

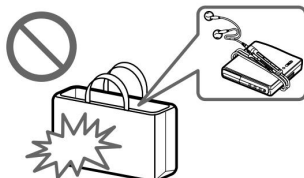
Please note

When using this unit, please be sure to observe the following to prevent deformation or malfunction of the cabinet.

- Put this device in your back pocket, such as your pants pocket.
Don't sit down.

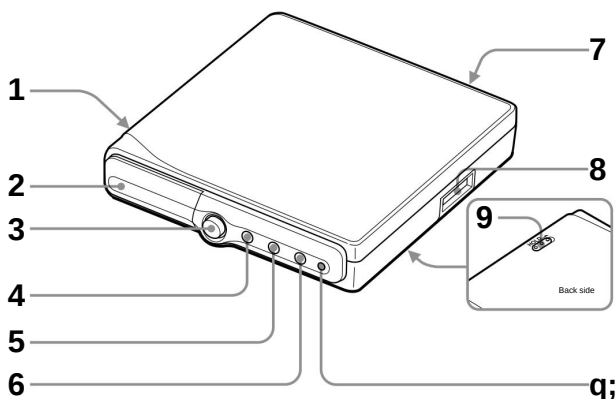


- Place the device in a bag with the remote control/headphones still wrapped around it, and do not apply excessive force from the outside.



Names of each part

Main unit

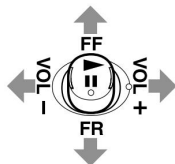


open

1. OPEN knob 2.

Rechargeable

battery compartment 3. Central control key



operation	function
Press NX*	Play/Pause
First Rewind	
Tilt towards the FR side	Fast forward/rewind
First Forward	
Volume of defeat on	Cueing/Fast Forward
the FF side	
Adjust the volume by tilting the VOL +* or - side.	

4 x (Stop) button

5 GROUP button

download

6. DOWNLOAD button /

DOWNLOAD Lamp Simple Burner

This is used to record music from a CD inserted into your computer's CD drive onto the MD player using the included MD Simple Burner software .

7 iJack

8 USB connection jacks

hold

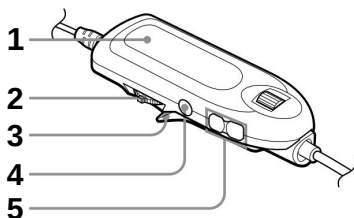
9. HOLD switch (back side):

Shifting it in the direction of the arrow will disable the device's operation. This prevents accidental button presses and malfunctions when carrying the device in a bag or other container.

0 CHG (Charging) / OPR (Operation) lamp

* It has a raised dot (protrusion). Please use it as a guide for operation.

remote control



1 display window

enter

2 **Jog lever (NX•ENTER, .,>)**

operation

function

Press NX•ENTER Play/Pause/Confirm

Shift to the side; cue out/rewind

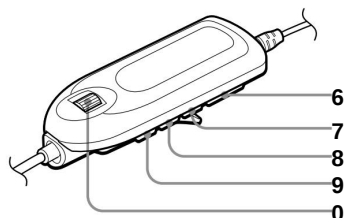
> Shift to the side / Fast forward

3 clips

cancel

4 x (Stop) • CANCEL button

5. Volume + and - buttons



hold

6 **HOLD switch:** By

sliding the switch in the direction of the arrow to display the yellow mark, the remote control will become unusable. This prevents accidental operation when carrying the remote in a bag or other container.

7 • **DISPLAY** and **BACKLIGHT** buttons*

display backlight

Play Mode repeat

8 • **P-MODE/ REPEAT** button * Sound

Sound Set

9 • **SOUND•SOUND SET** button*

Navigation Menu

q; Jog dial (•NAVI/ MENU/ •)

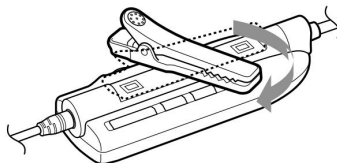
ENTER) * * * indicates a

function that can be used when pressed briefly, while indicates a function that can be used when pressed for 2 seconds or more.

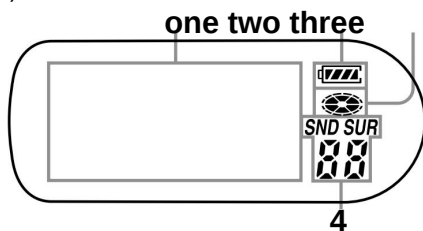
This is a function that becomes available when you press it.

How to use the remote control clip :

Depending on where you attach the clip, the orientation of the text displayed in the display window may be reversed, making it difficult to read. In that case, rotate the clip to the opposite direction and attach it as shown below.



Display window (remote control)



1. Character information display

section 2. Battery level indicator

3- disc display

Sound Surround

4 SND, SUR display

prepare

Please charge the rechargeable battery first after purchase.

1. Insert a rechargeable battery. 1. The lid of the

rechargeable battery compartment is indicated by the arrow.

Push and slide in that direction.



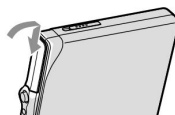
Insert 2 rechargeable batteries.

Please insert it with the eE terminal side facing inwards.



Insert the battery with the front surface facing forward.

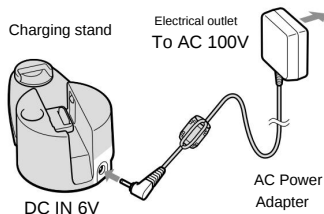
3. Close the lid.



1 charging stand and

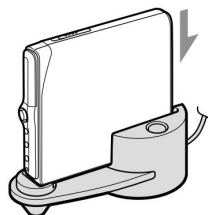
AC power adapter for charging 2 devices

Connect it and plug it into the outlet.

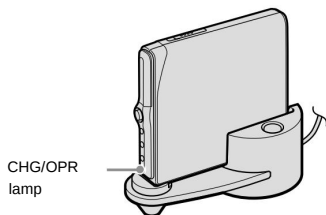


Place the 2 units on the charging stand.

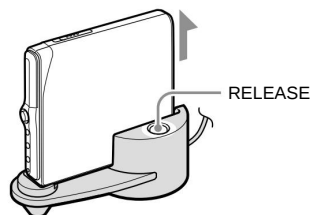
Press down and snap it into place.



Confirm that the 3CHG/OPR lamp is lit.
do.



4. Once charging is complete, the charging stand
Press RELEASE to remove the device from
the charging stand.



Z

- If the CHG/OPR light turns off immediately after charging, it means the battery is fully charged. • If you start charging from a completely discharged state, it will take approximately 1

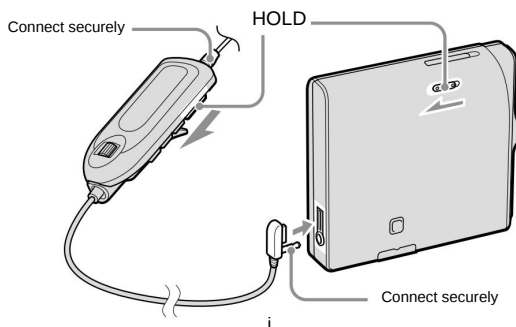
The CHG/OPR lamp will turn off after a set time, and charging will temporarily stop.

The CHG/OPR light turns off when the battery is approximately 80% charged. After another two hours, it will be fully charged to 100%.

3. Connect the remote control and release the hold.

1. Connect the remote control to the main unit.

Slide the 2HOLD knob to release the hold.
To remove.



Z

You can operate it even while charging. However, the remaining time until charging is complete will not be displayed.

Please note

- When charging, insert the rechargeable battery first, then place the unit on the charging stand. Charging will not work if you insert the rechargeable battery after placing the unit on the charging stand.
- When you first purchase the product or if you haven't used it for a long time, the rechargeable battery may have a short battery life. This is due to the characteristics of the battery, and it will fully charge after several charge-discharge cycles.
- Charging time varies depending on the ambient temperature. (Please charge in a location with a temperature between +5°C and +35°C.)

You can check

when it's time to charge the device during use in the following

ways: • Check the battery level indicator in the display window.



The battery level is low.

m



The battery is low.

m



The battery is dead. The remote control's display window will flash "LOW BATTERY" and the power will turn off. The battery level

display is only an estimate and not the actual remaining battery level. It may increase or decrease depending on the operating conditions and environment.

- Repeatedly press the DISPLAY button on the remote control to check the battery life. See "Viewing Information in the Display Window" (page 23).

Battery life 1)

In Hi-MD mode (1GB disk dedicated to the Hi-MD standard), (JEITA2))

the usage status is linear.	Hi-SP	Hi-LP
PCM	Stereo	Stereo
Stereo		

Playback time : approximately 10 hours , approximately 15.5 hours , approximately 18 hours

In Hi-MD mode (60/74/80 minute discs)

(JEITA2))

Usage status: Linear	Hi-SP	Hi-LP
PCM	Stereo	Stereo
Stereo		

Playback time : approximately 8 hours , approximately 14.5 hours , approximately 17.5 hours

In MD mode (JEITA2))

Usage status: SP	LP2	LP4
Stereo	Stereo	Stereo

reproduction Approximately 14.5 hours Approximately 17 hours Approximately 18.5 hours

1) When the rechargeable lithium-ion battery is fully charged and played continuously.

2) Measurement values according to JEITA (Japan Electronics and Information Technology Industries Association) standards is.

Please note

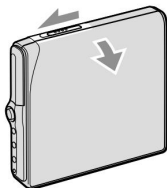
When replacing the rechargeable battery, always turn off the device first.

Play

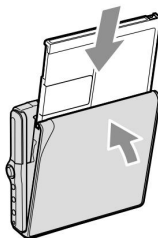
1. Insert a recorded disc. 2.

Slide the OPEN knob.

The lid opens.



With the label side of the 2 discs facing the lid, the arrow
Push it all the way in that direction and close the lid.



Basic

2. Listen

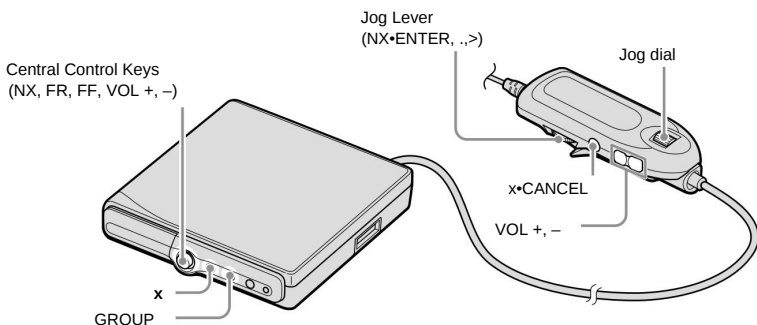
1. Press the control key (NX).

On the remote control, press the jog lever
(NX•ENTER). A "beep"
sound will be heard to confirm the operation.

2. Control the VOL+ and - sides of the central control keys.

Tilt it down to adjust the volume.

On the remote control, press VOL + and - to adjust the
volume. You can
check the volume level in the display window.



To stop playback, press x•CANCEL.

A beep will sound to confirm your action. The next time you play, playback will resume from where it left off.

In times like these	Main Unit Operation	Remote control operation
stop	Press x.	Press x•CANCEL.
Pause	Press NX. Pressing it again will release it.	Press the jog lever (NX•ENTER). Pressing it again will release it.
Select the song number or title directly (Direct Selection)	—	Rotate the jog dial to display the song you want to listen to, then press it.
To start the current song, or to go back to the previous song, move the control key to the FR side. Or, to go back to the previous song, move it to the FR side the number of songs you want to go back to. To start to the next song, move the control key to the FF side.		Move the jog lever to the right. Or move it to the right for the number of songs you want to go back to. Move the jog lever to the left.
Rewind/fast forward while playing	Keep the central control key in the FR or FF position.	Keep the jog lever slid to the . or > side.
Search for the location you want to listen to while monitoring the elapsed time (Time Search)	While paused, keep the central control key in the FR or FF position .	While paused, keep the jog lever slid to the . or > side.
Find the part you want to listen to by looking at the track number (index search)	While stopped, keep the central control key in the FR or FF position .	While stopped, keep the jog lever slid to the . or > side.
1) Skip to the beginning of the group (Group skip)	While stopped, press GROUP, then move the central control key to the FR or FF side.	—
To start playback from the first track on the disc, press x to eject the disc, then slide the OPEN knob to open the lid.	While stopped, press and hold the NX button for more than 2 seconds .	While stopped, press and hold the jog lever for more than 2 seconds (NX•ENTER). Press x•CANCEL and then the main unit Slide the OPEN knob to open the lid .

- 1) If there are no groups on the disc, playback will start from the beginning of every 10 tracks.
2) When you open the lid, the next playback will start from the beginning of the disc.

If playback cannot be started, please check the hold (accidental operation prevention) switch (pages 13, 14, and 17).

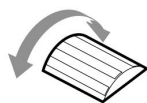
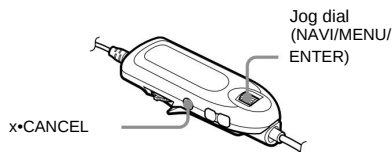
Please note

The sound may skip in the following cases: • If the disc is subjected to strong impacts repeatedly
• If you are listening to a scratched or dirty disc .
When using a disc in Hi-MD mode, the sound may be interrupted for up to approximately 12 seconds.

How to use the menu

This device uses a menu to operate its convenient functions. The menu is operated using the following procedure.

The first time you use the menu after purchase, "Menu Mode" will blink on the display window. Before use, set the menu mode to "Simple" (displays only basic items) or "Advanced" (displays all items) and select the items to be displayed in the menu. For details, please refer to "Changing the displayed menu items" (page 31) to set the menu mode.



Rotate to select



Press to confirm

Press and hold the **jog** dial (NAVI/MENU/ENTER) for more than 2 seconds.

The menu screen will appear.



Rotate the jog dial to select an item .

Press the **3** jog dial to select an item.

Follow the instructions in **step 4** and repeat steps 2

and 3. The setting will be confirmed when you press the jog dial at the end.

To return to the previous

step, press the x•CANCEL button.

To cancel midway, press and

hold the x•CANCEL button for more than 2 seconds.

Before s

Menu List

The following menu items can be configured. These can only be configured using the remote control. When "Menu Mode" is set to "Advanced," all menus will be displayed. When set to "Simple," menu items marked with an asterisk (*) will not be displayed. For more information, please see "Changing the displayed menu items" (page 31).

Please note

The items displayed will vary depending on the operating status and disk settings.

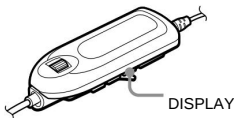
You can set the content displayed in the display window to either Japanese or English. For details, please see "Selecting the Display Language" (page 34).

First layer	Second layer	function	Reference page
Convenient features /	Search for songs / Search * Search for songs		28
Useful*	Speed control /	Change playback speed	30
	SpeedControl *		
Various settings / Option menu mode /	Menu Mode	Change the menu display items.	31
	AVLS/AVLS* reduces sound leakage from headphones.		31
	Operation confirmation sound /	Set a confirmation sound.	32
	Beep*		
	Backlight settings /	32. Adjust the backlight settings for the remote control display window.	
	Backlight disk		
	memory /	Record disk settings	32
	Disc Memory*		
	Quick Mode /	Start playback quickly	33
	Quick Mode*		
	Disc mode /	Set the disk mode (Hi-MD or MD).	34
	Switch Mode		
	Contrast adjustment /	Adjust the brightness of the display window on the remote control.	34
	Contrast*		
	Display language/	Set the display language to Japanese/English	34
	Language		
	display method selection /	Set the display to prioritize kanji characters or alternate between kanji and kana.	35
	JP Character*	(MD mode only)	
	Jog dial /	Change the scroll direction of the display window.	35
	Jog Dial*		

Various ways to play back

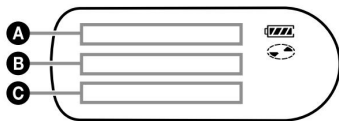
View information in the display window.

During playback, you can check information such as the song title and disc name in the display window.



1. Repeatedly press DISPLAY during playback.

Each time you press it, the display changes as follows:



The name is displayed after each mark: : Disc name :

- Song title :
- Group
- name : Artist
- name : Album name
-

Display A/B/C

Group **AB C** Number 1) Track

number and elapsed time • Track title and artist name (Hi-MD) • Song Title (MD)

Track number 2)	Remaining time for the currently playing song	• "Time remaining for one song" /1 Remain" and song title, artist name (Hi-MD) • "Time remaining for one song" /1 Remain" and song title (MD)
(1 song remaining)	Remaining playback time	"Remaining playback time" "All Remain" and the disc name

AB C

• Disc name and artist name (Hi-MD) 2)	• Group name and album name (Hi-MD) 3)	• "Recording and playback format" /Codec" (Hi-MD) • "Recording and playback format /
• Disc name (MD) 2)	• Group name (MD) 3)	• Song recording mode and bitrate (Hi-MD) • Song recording mode (MD)
Sound mode name 4)	Display of each selected sound mode	Track Mode (MD)
Battery life/condition of rechargeable batteries 5) "Battery life/ "Battle Status"		

1) When the main playback mode is selected, the main playback mode mark will be displayed. 2) When playing a song that does not belong to a group, the song number will be displayed. 3) When playing a song that does not belong to a group, the disc name will be displayed. 4) This will not be displayed when the menu mode is set to "Simple" (page 31). 5) The displayed time is an estimate of the time when playing continuously in an environment of +25°C. When there is sufficient battery power, it will display "Plenty", and when it is depleted, it will display "Almost Empty". This will not be displayed when using an AC power adapter.

Please note

- The display may vary depending on the disk group settings, operating status, and configuration.
- The battery life/status of the rechargeable battery will be displayed approximately 1 minute after playback begins. However, depending on the usage environment and the condition of the rechargeable battery, the display may not be accurate.

Select a playback mode

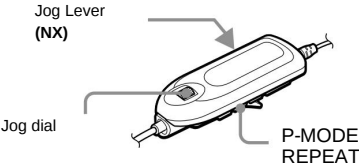
You can listen to songs in various ways by selecting a playback mode. The playback mode is set using three combinations: main playback mode, sub-playback mode, and repeat playback.

- Main

playback mode: Select the song you want to play and...

Select units such as loops. •

Sub-playback mode: Select the playback method. • Repeat playback: Set repeat playback. ru.



Select the main playback mode and listen.

Enter navigation mode using the jog dial on the remote control, and then select the song you want to play first in main playback mode.

1. Press the jog dial while playback is in progress.

Entering navigation mode will bring up the main playback mode selection screen.

Rotate the jog dial to select your preferred playback mode, then press to confirm .

Display	Playback
Normal playback (Normal Play)	status: Normal playback (plays all tracks on the disc once)
Group Regeneration (Group Play)	Group playback (plays only the currently playing group)
Artist Revival (Artist Play) *	Artist Playback (Plays only songs by your favorite artists)

display	Playback status
Album Playback (Album Play) *	Album Playback (Plays only songs from your favorite album)
Bookmark Playback (BookmarkPlay)	Bookmark playback (plays only the songs with bookmarks in order)
Program playback (Program Play)	Program playback (arrange the songs you want to listen to in your preferred order and play them)

* This is only displayed in Hi-MD mode.

Listen to music in normal mode (normal playback)

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Normal Play" .

Rotate the **jog** dial to select your preferred group, then press to confirm. A list of songs within the selected group will be displayed.

If there are no groups on the disc , this step is not necessary.

Rotate the **3- jog** dial to select your desired song, then press to confirm.

Playback of the selected song will begin.

Playback will proceed from the selected song until the last song on the disc.

Listen to the group's songs (Play the group)

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Group Play" . A list of groups will be displayed.

Rotate the jog dial to select your preferred group, then press to confirm. A list of songs within the selected group will be displayed .

Turn the **3** jog dial to select your favorite song.

Select and press to confirm.

Playback of the selected song will begin.

Playback will start from the selected song and continue until the last song in the group.

Z

- During playback, you can jump to the beginning of a group by pressing the GROUP button on the unit and then moving the central control key to the FR or FF side.
- If there are no groups on the disk, It will display "Group -- " .

Listen to songs by a selected artist (Artist

Playback) (Hi-MD mode only): If a song has an artist name, you can search for and listen to the song by artist name.

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Artist Play ". A list of artists will be displayed in alphabetical order .

Turn the **jog** dial to select your preferred artist's name and press to confirm. A list of songs by the selected artist will be displayed in the order they were recorded.

Rotate the **3-** jog dial to select your desired song, then press to confirm.

Playback of the selected song will begin.

Playback will proceed from the selected song to the last song in the song list.

Z

During playback, press the GROUP button on the unit, then move the central control key to the FR or FF side to jump to the beginning of an artist's track.

Selecting an album to listen to (album playback)

(Hi-MD mode only): If a song has an album name, you can search for the song by the album name and listen to it.

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Album Play ". A list of albums will be displayed in alphabetical order .

Turn the **jog** dial to select your preferred album name, then press to confirm. A list of songs from the selected album will be displayed in the order they were recorded.

Rotate the **3-** jog dial to select your desired song, then press to confirm.

Playback of the selected song will begin.

Playback will start from the selected song and continue until the last song on the album.

Z

During playback, press the GROUP button on the unit, then move the central control key to the FR or FF side to jump to the beginning of the album.

Various

You can select and listen to only your favorite

songs (bookmark playback). You can bookmark your favorite songs and play only those songs. However, you cannot change the song order.

To add a bookmark

1. Play the song you want to bookmark and press and hold the jog lever for more than 2 seconds. The first song will be registered as a bookmark.



2. Repeat step 1 to create bookmarks.

To play bookmarked songs

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Bookmark Play".

Turn the jog dial to play the song you want to play .

Select an option and press to confirm. The songs will play in order from the selected song, up to the last bookmarked song.

To delete a bookmark, play the song whose bookmark you want to delete and press and hold the jog lever for more than 2 seconds.

You can rearrange songs and groups in your preferred order (program playback) .

Programming a song (track programming)

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Program Play" .

Turn the jog dial **to** select "Track" and press to confirm.

Follow steps 2-4 of "Searching for a Song" (page 28) . The first song in the program will be registered.

4. Repeat step 3 to program the song.
It can program up to 64 songs .

Once you've selected **5** , press the jog dial for 2 seconds.

Press the button above to confirm. The settings will be confirmed, "PGM" will be displayed, and playback will begin from the first track of the program.

Programming groups (group programming)

1. Select the main playback mode and listen.
Follow steps 1 and 2 on page 24, and in step 2, select "Program Play" .

Rotate the jog dial to select "Group , " then press to confirm.

Rotate the **3** jog dial to select a group, then press to confirm.

Repeat step 3 of step 4 to program the group. You can program up to 20 groups.

5. Once you have made your selection, press and hold the jog dial for more than 2 seconds to confirm. The program **PGM** be confirmed, " " will be displayed, and playback will begin from the first song of the first group in the program.

Z

During programming, pressing the jog dial allows you to review the songs and groups you have programmed so far.

Select sub-playback mode

You can listen to the songs you select in the main playback mode in various ways. For example, if you select

"Group Play" in the main playback mode and "SHUF" in the sub-playback mode, you can play the songs in the selected group in any order.

Press the P-MODE button repeatedly.

Each time you press it, the display will change as follows:

display	Playback mode
(No display)	Normal playback (play all songs once)
Play 11 songs (play only the selected song)	
SHUF	Shuffle playback (plays songs selected in main playback mode in no particular order)
A- (AB) 	AB Repeat Playback (Repeatedly plays points A and B within the song)

* This will not be displayed when the menu mode is set to "Simple" (page 31).

This function allows **you to repeatedly play only a specified section of a song (AB repeat playback).**

You can specify points A and B within a song and repeatedly listen to the section between them. Points A and B must be specified within the same song.

stomach.

1. While playing a song that contains the section you want to repeat, repeatedly press P-MODE until "A-" is displayed.
2. At the point where you want to start the repetition (point A), Press the dial.
Point A is determined, and "B" will start flashing.
3. At the point where you want to end the repetition (point B), Press the dial.
Once point B is determined, "AB" and " " will light up, and the sequence between points A and B will be played.

Various

Z

During AB repeat playback, you can reset points A and B by moving the jog lever to the > side.

Please note

If you stop playing the disc before selecting point A, the A-B repeat setting will be canceled.

Listen repeatedly (repeat playback)

You can listen to songs repeatedly in any playback mode other than A-B repeat playback.

Press and hold REPEAT for more than 2

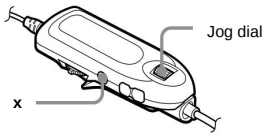
seconds. The " " light will illuminate.

To cancel, press

REPEAT for more than 2 seconds to remove the " ".

Search for songs

You can easily find your favorite songs by searching by song title, group name, artist name, or album name. Artist and album names are only displayed when using a disc in Hi-MD mode .



- 1. In the menu, select "Useful Functions" – "Song Search" ("Useful" – "Search").

Rotate the jog dial to select a song search method, then press to confirm .

	Search
Display	method: Search by song title
Track Search	
(by Track)	Search by group name
Group Search	
(by Group) Artist	Search by artist name
Search (by Artist) *	
Album Search	Search by album name
(by Album) **	

Only displayed in Hi-MD mode.

Step 3 , step 2: Search for song title ("by Track").

If you select [option], proceed to step 4. Otherwise, rotate the jog dial to select your preferred group, artist, or album, and press to confirm. A list of songs from the

selected group, artist, or album will be displayed.

Turn the **jog** dial to select a song.

Press the button to confirm.

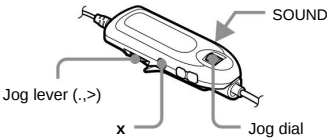
Playback of the selected song will begin.

Please note

- After step 4, the main playback mode and sub-playback mode will be deactivated (repeat playback will still work).
- When searching for songs, unnamed songs will appear at the very end of the song list. • While sorting selected items, " Sort ..." will be displayed. Do not perform any operations until "Sort..." disappears.

Customize the sound to your liking (Virtual surround sound, 6-band equalizer)

You can change the sense of realism in the sound and select and set your preferred sound quality. You can choose one of the following two effects: • V-SUR (Virtual Surround): Changes the sense of realism in the sound (4 types) • 6 BAND EQUALIZER : Changes the sound quality (6 types)

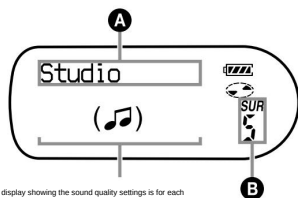


Transforming the sense of presence (virtual surround sound)

- 1. While playing, repeatedly press SOUND. Display "SUR".

Press and hold the 2SOUND button for more than 2 seconds.

Turn the **3 jog** dial to adjust the surround sound. Choose a type.



The display showing the sound quality settings is for each
Displayed by mode.

Turning the jog dial will move A and B next
It will change like this.

AB

Studio	SUR S
Live	SUR L
Club	SUR C
Arena	SUR A

Press the **jog** dial to confirm.

When you want to disable the setting

In step 1, nothing is displayed in B.
Select (Normal).

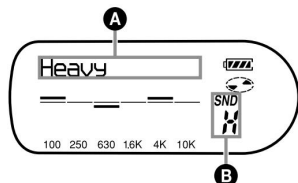
Choosing sound quality

(6-band equalizer)

1. While playing, repeatedly press SOUND.
Display "SND".

Press and hold the 2SOUND button for more than 2 seconds.

Turn the **3** jog dial to create a sound seed.
Choose a type.



Turning the jog dial will move A and B next
It will change like this.

AB

Heavy	SND H
Pops	SND P
Jazz	SND J
Unique	SND U
Custom1	SND 1
Custom2	SND 2

Press the **jog** dial to confirm.

When you want to disable the setting

In step 1, nothing is displayed in B.
Select (Normal).

Adjust to your preferred sound quality.

"Custom1" and "Custom2" are
You can save your preferred sound quality settings.

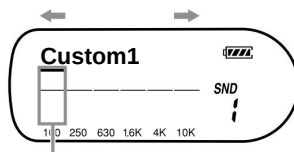
vinegar.

1. "Choose your sound quality (6-band equalizer)"
Follow steps 1-3 to select "Custom1".
Alternatively, display "Custom2".

Press the **jog** dial.

3. Jog lever. Or slide to the side.

Then select the frequency.



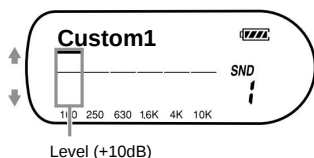
Frequency (100Hz)

You can choose from the following six frequencies:

100Hz, 250Hz, 630Hz, 1.6kHz, 4kHz,
10kHz

Continued on the next page.

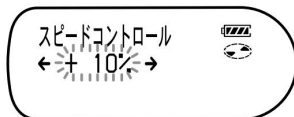
Adjust the level by turning the **4** jog dial.
do.



The level can be selected from the following 7 levels: -10dB, -6dB, -3dB, 0dB, +3dB, +6dB, +10dB

Repeat steps 3 and 4 .

Press the **6** jog dial to confirm.



Once confirmed, "SC" will be displayed in the display window.

To return to normal speed,

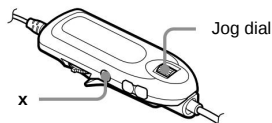
set the playback speed to 0% in step 2 and confirm .

Please note

Changing the playback speed may cause you to hear popping or echoing sounds during playback.

Change playback speed (speed control)

This is useful when you want to change the playback speed for language learning or other purposes. It changes only the playback speed, without altering the pitch. You can choose from 13 levels of playback speed, ranging from +100% to -50% .



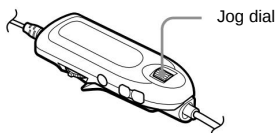
1. While playback is in progress, select "Useful Functions" – "Speed Control" from the menu.

This will take you to the playback speed settings screen.

Rotate the jog dial to select the speed, then press to confirm. Please select the playback speed while listening to the playback sound .

Change the displayed menu items (menu mode)

You can choose to display all menu items ("Advanced ") or only the basic items ("Simple"). For menu items that are not displayed, please refer to the "Menu List" (page 22) .



1. Menu operation for "Various settings" - "Menu"
Select "New Mode" ("Option" – "Menu Mode").

Rotate the jog dial to select "Simple" or "Advanced," **then** press to confirm.

Reduces sound leakage and creates a sound that is gentle on the ears (AVLS - Auto Volume Limiter System - Comfortable Volume)

This reduces the risk of sound leakage, ear pressure, and the danger of not being able to hear ambient sounds due to excessive volume, allowing you to listen at a more comfortable volume.



"Various settings" can be accessed with a **single** menu operation.

("Option") – Select "AVLS".

Turn **the jog** dial to select "AVLS O

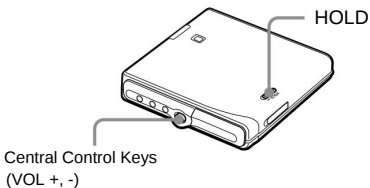
Select "AVLS On" and press to confirm. If you try to

increase the volume beyond a certain level, "AVLS" will flash in the display window, and the volume will not increase any further.

To disable the setting,

select "AVLS Off" in step 2 .

Operate using the main unit.



To set it , while

playback is in progress, slide the HOLD switch in the > direction , and while tilting the central control key in the VOL - direction, slide the HOLD switch in the opposite direction to >.

To deactivate the setting ,

while playback is in progress, slide the HOLD switch in the > direction , and while tilting the central control key in the VOL + direction, slide the HOLD switch in the opposite direction.

Turn off the confirmation sound

You can configure whether or not to play confirmation sounds on the main unit and remote control.



1. In the menu, select "Various Settings" – "Operation Confirmation Sound" ("Option" – "Beep").

Turn the jog dial and hear the confirmation sound .

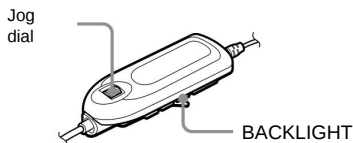
Select "Beep Off" and press the button to confirm.

To revert the settings,

select "Beep On" in step 2 .

Turn the display window backlight on/off

You can set the remote control's display window to always be lit or to remain off.



1. While stopped, select "Various settings" from the menu.

Select "Option" – " Backlight".

Rotate the jog dial to select your preferred setting, then press to confirm .

display	setting
Automatic lighting (AUTO)	The light stays on while in operation. It turns off after a few seconds of inactivity.
Always on (ON) :	The light stays on while the device is running .
Always off (OFF) .	

To turn on the backlight only when needed while it's set to "Auto" mode:

Press and hold the BACKLIGHT button for more than 2 seconds.

When the BACKLIGHT button is pressed, the backlight of the display window will illuminate.

Save settings for each disk (disk memory)

This unit is configured to automatically register disc settings information (default setting). When this setting is enabled, the settings information is automatically registered when a disc is ejected, and automatically recalled when a registered disc is reinserted. The following settings information will be registered: • Program playback • Bookmarks • 6-band equalizer "Custom1" and "Custom2"

You can check this setting by following these steps.



1. Remove the disc, then select "Various Settings" - "Disk Memory" ("Option" - "Disc Memory") from the menu.

Turn the **jog** dial to select "Disk Memory On" ("On") and press to confirm.

To disable the setting,

select "Disk Memory Off" ("Off") in step

2 .

To delete your registration

1. Insert the disk you want to remove from the registration.
Check the contents.

Step 2 , "1. Erase Memory"

Select ("1MemoryErase"). The disk configuration information will be deleted from the registration.

Z

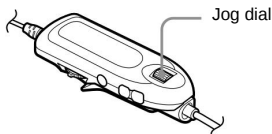
When "Disk Memory On" is set to "On" , "Disk Memory" will be displayed when you insert a registered disk .

Please note

- You can register up to 64 discs , but if you exceed 64, the oldest played discs will be automatically deleted. The number of discs you can register depends on the number of songs recorded on each disc. The more songs a disc has, the fewer discs you can register.
- If you attempt to erase the registration on a disk that has never been registered for disk memory, the message "This disk is not memorized" ("NO DISC MEMORY") will be displayed.

Listen to the sound quickly (Quick Mode)

This device is configured to allow you to hear playback immediately after pressing the play button (default setting). You can check this setting by following these steps.



1. While stopped or playing, select "Settings" - "Quick Mode" ("Option" - "Quick Mode") from the menu.

Turn the jog dial to select " **Quick**

Select "Quick On" and press to confirm.

If you won't be using the device for an extended period, select "Quick Mode Off" in step 2. This will reduce battery drain when the device is not in use.

Please note

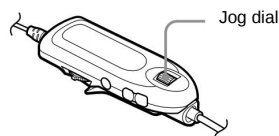
When the setting is set to "Quick Mode On" , the device remains powered on internally even when nothing is displayed on the screen. When the battery is completely depleted, the device will automatically shut off internally.

Select disk mode (disk mode)

This function allows you to choose whether to format a conventional 60/74/80 minute disc as a Hi-MD or MD format when the disc is blank. Connect this unit

to a PC and format the disc using the SonicStage software.

If you wish to use this with other devices that do not support Hi-MD, please set the disc mode to "MD".



1. Select "Various Settings" – "Disc Mode" ("Option" – "Disc Mode") from the menu.

Turn the **jog** dial to select "Hi-MD".

(Default settings) or display "MD" and press to confirm.

Please note

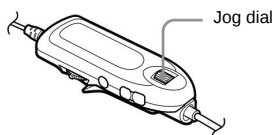
- Even when using a 1GB disc specifically for the Hi-MD standard, you can select "MD" in the "Disc Mode" setting, but the only operating mode you can use is Hi-MD mode.
- 60/74/80

minutes with SonicStage software

Even if you initialize the disk or select the operating mode for a 60/74/80 minute blank disk, the operating mode when using that blank disk with this machine will follow the "Disk Mode" setting.

Adjust the contrast of the display window. (Contrast adjustment)

You can adjust the contrast of the display window on the remote control.

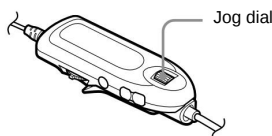


1. While stopped, use the menu to select "Various settings" "Option" – "Contrast Adjustment" will blink, then press to confirm.

Turn the **jog** dial to adjust the brightness of the display window. Select and press to confirm.

Select the display language.

You can switch the language displayed on the remote control's display window between Japanese and English.



1. Select "Various Settings" – "Display Language" ("Option" – "Language") from the menu.

Turn the jog dial to select "Japanese language" Display "Japanese" or "English" ("Japanese" / "English") and press to confirm.

Switch the display method for titles entered on a computer.

This setting can only be switched when using MD mode . Switching is not possible when using Hi-MD mode.

In MD mode, there are two display methods :

- Kanji

priority: The default setting. This is usually the one to use. • Kanji

and Kana alternating: Text input on a computer.

This option is used when you have entered different information in the full-width and half-width character areas (e.g., song title in the full-width area, artist name in the half-width area).

Both pieces of information will be displayed.

To switch to "alternating kanji and kana" display, please follow these steps:



1. In menu operation, select "Various Settings" - "Display Method Selection" ("Option" - "JP Character").

Turn the jog dial **to** select "Kanji & Kana" and press to confirm.

To revert the

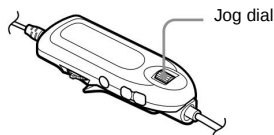
settings, select "Kanji First " in step 2 .

Please note

On this device, even if you set the text input method to full-width characters in PC software, alphanumeric characters and spaces will all be displayed as half-width characters.

Change the scroll direction of the display window.

By default, turning the jog dial downwards scrolls the items in the display window downwards, but you can change this so that it scrolls upwards.



1. Select "Various Settings" – "Jog Dial" ("Option" – "Jog Dial") from the menu .

Rotate the **2** jog dial to select "Reverse Scroll" and press to confirm.

To revert the

settings, select "Normal Scrolling" ("Default") in step 2 .

Various s

Use by connecting to a computer.

Things you can do when connected to a computer

To use it by connecting it to a computer, first use the included...

Please install the software using the CD-ROM.

For installation instructions, please refer to the separate booklet, "Installation and Operation

Guide for SonicStage Ver.2.1/ MD Simple Burner Ver.2.0 for MD Walkman".

For detailed instructions **on using the included software**, please refer to the separate booklet "Installation and Operation Guide SonicStage Ver.2.1/

MD Simple Burner Ver.2.0 for MD Walkman" or the Help section.

- Transferring music data between this unit and a PC
Using the included SonicStage software, you can transfer music data between this unit and your computer.

- Included MD Simple Burner software
for recording songs directly from CD to MD.
Using the software, you can directly record CDs from your computer's CD drive onto this device's disc.

When using the disc in Hi-MD mode, which uses

the disc inside this unit as a recording medium, you can view it as an external device in Windows Explorer on your computer. You can save text data, image data, and other files to the disc.

Z

When you play a song using the software, if the disc you are using in Hi-MD mode is inserted into the unit, the playback sound will come from your computer's speakers. If the disc you are using in MD mode is inserted into the unit, the playback sound will come from the headphones connected to the unit.

Connect to a computer

To connect this device to your computer, please follow the steps below.

Please note

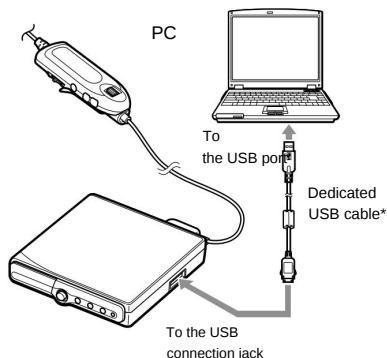
- If you are using Windows 2000 Professional
In the event that you turn on or restart your computer, please disconnect the dedicated USB cable connecting this device before doing so. If you turn on or restart your computer while the device is still connected, and then disconnect the dedicated USB cable, the device may not be recognized by your computer when you reconnect it. If it is not recognized, disconnect the dedicated USB cable, restart your computer, and then reconnect the device. Perform Windows Update
Updating Windows to the latest version may resolve the above issues. • If you are using Windows ME/98SE

When this unit's disc mode is set to "Hi-MD" (the default setting at the time of purchase), connecting it to a computer and inserting a 60/74/80 minute blank disc may result in a Hi-MD format disc even without any recording. • If you are using Windows ME/98SE

When you unplug the dedicated USB cable, a "Device Removal Warning" message will appear on your computer, but this is normal.
Please click "OK" to dismiss the display.

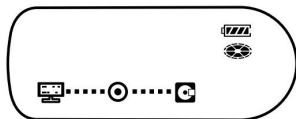
©2004 Sony

The device is powered via a USB port on a computer, allowing it to be used without draining its own battery (bus-powered connection).



* This device comes with two dedicated USB cables. Please use whichever you prefer depending on your connection situation.

1. Insert the recording disc into the main unit.
2. Confirm that the main unit is stopped.
Release the hold and connect the device to the computer using the dedicated USB cable.
3. Verify that the connection is correct.
When connected correctly, the remote control's display will show .



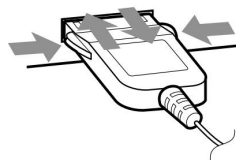
Always follow the steps below **when disconnecting the dedicated USB cable**. Failure to do so may result in data corruption.

1. Confirm that the DOWNLOAD light is not blinking.
2. Press the x button on the main unit or remote control.

The remote control's display window will show "Disc can be changed" ("EJECT DISC OK"). In some cases, it may take some time for "Disc can be changed" ("EJECT DISC OK") to appear.

3. Disconnect the dedicated USB cable. When disconnecting it from the main unit, press the buttons on both sides of the plug, push the plug inwards, and then pull it out.

stomach.



Use by

When removing the disc

1. When disconnecting the dedicated USB cable, follow steps 1 and 2 above.

Remove the 2 discs.

Continued on the next page.

Please note

- When using with a computer, we recommend inserting fully charged rechargeable batteries to prepare for unforeseen accidents such as power outages or the dedicated USB cable becoming disconnected. Please note that we do not guarantee against malfunctions, failures in music data transfer, or corruption of music data in the event of unforeseen

circumstances. • When reconnecting the dedicated USB cable after disconnecting it from the unit, please wait at least 2 seconds

before reconnecting. • Please use in a stable location

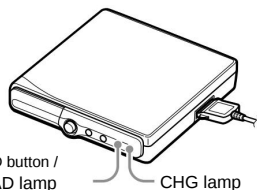
free from vibrations. • When playing music on this unit, please use with a computer. Do not connect.

- If the computer enters system suspend, sleep (standby), or system hibernation mode while connected to the device, malfunctions may occur. Avoid setting the device to automatically enter these modes. • Do not connect this

device to a computer via a USB hub. • The rechargeable

battery of the device cannot be charged when using a bus-powered connection. •

Operation is not guaranteed on all computers in the recommended environment.



DOWNLOAD button /
DOWNLOAD lamp

CHG lamp

1. Insert the music CD into the CD drive of your computer .

2. Press and hold the DOWNLOAD button for approximately 2 seconds.

The DOWNLOAD light will start blinking, and recording will begin. If

you insert a disc that already has recordings on it, the recording will start after the previously recorded portion.

To stop recording midway, click the button on your computer screen. If you are

recording the first song, you can also stop it by pressing the x button on the device itself.

Record directly from a CD using a computer.

Using the MD Simple Burner software, you can directly record music from a CD in your computer's CD drive onto the disc of this device. This section explains how to record using the DOWNLOAD button on the device. For other recording methods, please refer to the separate "Installation and Operation Guide SonicStage

Ver.2.1/ MD Simple Burner Ver.2.0 for MD Walkman " or the Help section.

Z

For information on setting the recording mode, please refer to the separate booklet, "Installation and Operation Guide for SonicStage Ver.2.1 / MD Simple Burner Ver.2.0 for MD Walkman ".

Please note

Do not unplug the dedicated USB cable while the DOWNLOAD light is blinking. Doing so may cause malfunction or failure.

Save data other than music data to disk (data storage)

When you connect this unit to your computer with a disc inserted in Hi-MD mode, Windows will recognize it as an external storage medium, allowing you to save data other than music (such as text data and image data) to the disc. For details on the capacity of each disc, please see the next page.

Insert your disc into the unit in Hi-MD mode and connect it to your computer. It will be recognized as an external device in Windows Explorer. Please use it just like any other device.

Please note

- When SonicStage software is running, it will not be recognized as an external device. •
- When formatting (initializing) the disk on your computer, always format it using SonicStage software. • Do not delete the file management folder (HMDHIFI folder, HI-MD.IND file) in Explorer.

Disk capacity per disk (when initialized with the main unit/SonicStage software)

Disk type: Total capacity 60-minute	Disk management capacity * Free space	
disk 219 MB (229,965,824 bytes)	832 KB (851,968 bytes)	218 MB (229,113,856 bytes)
74 minutes: 270 MB (283,312,128 bytes) 80 minutes: 291 MB (305,856,512 bytes)	832 KB (851,968 bytes)	269 MB (282,460,160 bytes)
Hi-MD disk 964 MB (1,011,613,696 bytes)	832 KB (851,968 bytes)	290 MB (305,004,544 bytes)
	832 KB (851,968 bytes)	963 MB (1,010,761,728 bytes)

* Disk management capacity refers to the amount of space on the disk used to manage files. * Disk management capacity changes depending on usage conditions, etc. Therefore, the free space displayed in Explorer may differ from the available space.
The actual usable storage space may be less than the total capacity.

Precautions for use

Do not disassemble the MiniDisc

player. The laser used in the MiniDisc player is dangerous if it comes into contact with your eyes.

Do not touch the lens. If the lens becomes dirty, it may cause skipping or prevent playback. Also, to prevent dust from accumulating, always keep the lid closed except when inserting or removing discs.

Regarding the AC power adapter (for use with the included charging stand) : Please

use the included AC power adapter (polarity-unified plug, JEITA standard) with this product . Using any other product may cause malfunction.



Polarity-unified plug

- Connect the AC power adapter to a power outlet that is easily accessible, and unplug it immediately if any problems occur.
- When using the AC power adapter, please note the following: —Do not place the unit in narrow spaces such as shelves or built-in cabinets. —To avoid the risk of fire or electric shock, do not use the unit in places where it may get wet or in humid places. Also, do not place vases or other objects containing water on top of the unit.

Regarding the disposal of rechargeable batteries in Japan



Li-ion

Lithium-ion batteries can be recycled. When you no longer need a lithium-ion battery, please cover the metal parts with insulating tape, such as cellophane tape, and take it to a participating recycling center.

For the collection and recycling of rechargeable batteries and the recycling partner stores, please contact the Limited Liability Intermediate Corporation.

Please refer to the JBRC website : <http://www.jbrc.net/hp/contents/index.html> .

Handling Instructions: • Do

not drop or subject the device to strong shocks, as this may cause malfunction. • Do not pull the remote control or headphone cords forcefully. • Do not place the device in the following

locations: — Places with very high temperatures (above 60°C). — Places in direct sunlight or near heating appliances.

Ku.

—Inside a car with the windows closed (especially in summer). —In damp places such as bathrooms.

—Magnetic devices such as magnets, speakers, and televisions.

Near something wet

or damp. —A dusty place.

- At high temperatures (above 40°C) or low temperatures (below 0°C), the LCD display may become difficult to see or the display may change slowly. It will return to normal when it returns to room temperature.
- Do not put hard objects in the carrying pouch along with the main unit. This may cause paint chipping or scratches. • Do not remove the disc or unplug the dedicated USB cable while reading or writing . This may result in improper recording or loss of recorded music data.
- If used in locations affected by static electricity or electrical noise, recording may not be performed correctly, or recorded music data may be lost.

The device may become hotter during **charging** or after prolonged use, but this is not a malfunction.

Regarding the operating

noise, this device uses a power-saving operating method.

Therefore, it will make intermittent noises during operation, but this is not a malfunction.

others

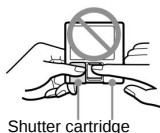
Regarding charging :

- The included charging stand is for this device only. It cannot charge other devices.
- Do not use the included charging stand to charge batteries other than the specified type.
- Always use the included AC power adapter for charging .
 - Charge in a location between +5°C and +35°C . The charging time will vary depending on the temperature. (Charging time will be longer at lower temperatures. This is due to the characteristics of lithium-ion batteries.)
- The charging stand and the main unit will become hot during charging, but this is not dangerous.

- When purchased or if not used for a long time, The battery life of rechargeable batteries may be short. This is due to the characteristics of the battery, and it will become fully charged after several charge-discharge cycles.
- When the usable time is about half of the normal time even after a full charge, replace the battery with a new one.
- When not using the device for an extended period, unplug the AC power adapter from the outlet and remove the unit from the charging stand.
- When not using the device for an extended period, remove the rechargeable battery and store it in a cool, dry place. When storing the battery, do not store it completely discharged or fully charged to prevent deterioration of the battery.

Disc Handling Instructions: • The MiniDisc

itself is housed in a cartridge, making it easy to handle without worrying about dust or fingerprints. However, dirt or warping of the cartridge can cause malfunctions. To ensure you can enjoy beautiful sound for a long time, please note the following: —Do not open the shutter by hand. Forcing it open will break it.



—When carrying or storing, place in the case. —

Regarding

storage location: Do not

place in places with high temperatures or humidity, such as in direct sunlight. Also, do not leave in places where sand may get into the disc, such as on a sandy beach. — Regular maintenance: Wipe off any dust or debris

from the surface of the

cartridge with a dry cloth. • Do not attach the label included with the disc to any location other

than the designated area. Always make sure to align it firmly with the label indentation.

About the headphones : • If

you experience any skin irritation while using the included headphones, stop using them immediately and consult a doctor or customer support center. • The included headphones

will leak sound if the volume is turned up too high. Please

be careful not to disturb those around you by turning the volume up too high. You may be tempted to turn up the

volume in noisy places, but when listening with headphones, please aim for a volume level that allows you to respond if called upon.

Regarding the remote control:

The included remote control is for this unit only. Furthermore, this unit cannot be operated with a remote control included with another model.

For cleaning, if the surface

becomes dirty, gently wipe it with

a soft cloth slightly dampened with water, then dry it thoroughly.

Do not use paint thinner, benzene, alcohol, etc., as these will damage the surface.

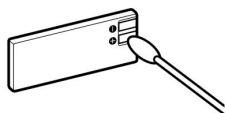
Cleaning your headphones and remote control plugs:

Dirty

plugs can cause static and sound interruptions. To ensure you always enjoy good sound, wipe the plugs occasionally with a soft, dry cloth to keep them clean.

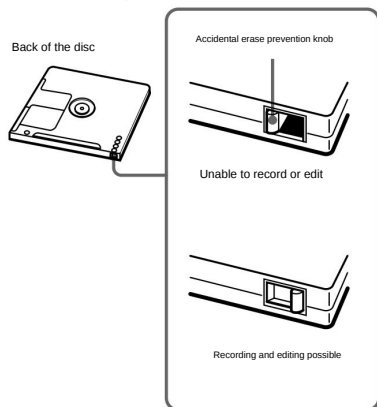
Regarding terminal maintenance,

please regularly clean the terminals of rechargeable batteries with a cotton swab or soft cloth.



Regarding the accidental erase

prevention knob: To prevent accidentally erasing recorded content, slide the accidental erase prevention knob to create a hole. When the knob is in this position, recording and editing are disabled. To record or edit, close the knob.



In the event of a malfunction, please contact the store where you purchased the product or a Sony service center without opening the device. (If the malfunction occurs while a disc is inserted in the device, we recommend that you contact us with the disc still inside to help us resolve the cause of the malfunction as quickly as possible.)

Main specifications

format

MiniDisc Digital Audio System

Recording

method: Magnetic field

modulation optical method ;

Replay/reading method: Non-contact optical reading (using

semiconductor laser) ; Laser

GaAlAsMQW diode, $\lambda=790\text{nm}$

Recording and playback time (see page 56 for details)

When using HMD1G (1GB): Up

to 34 hours of stereo playback (Hi-LP)

When using the MDW-80 in Hi-MD mode:

Stereo up to 10 hours and 10 minutes (Hi-LP)

When using the MDW-80 in MD mode:

Maximum 160 minutes in

mono , maximum 320 minutes in stereo (LP4)

Rotational

speed approximately 350 rpm to 3,600 rpm (CLV)

Error correction method

Hi-MD:

LDC (Long Distance Code)

BIS (Burst Indicator Subcode)

MD:

ACIRC (Advanced Cross
Interleave Reed Solomon Code)

sampling

frequency 44.1kHz

others

Coding Hi-MD:

Linear

PCM (44.1kHz/16bit) — PCM

ATRAC3plus (Adaptive

Transform Acoustic Coding 3 plus) —

Hi-SP/Hi-LP MD: ATRAC

ATRAC3 —

LP2/LP4

Modulation method

Hi-MD:

1-7RLL (Run Length Limited)

PRML (Partial Response

Maximum Likelihood)

MD:

EFM (Eight to Fourteen

Modulation

frequency response (headphone output):

20–20,000 Hz ± 3 dB

Output terminals

i: Stereo mini jack (dedicated remote control jack)

Practical

maximum output (DC) 1)

Headphones: 5 mW + 5 mW (16 Ω)

power supply

Main

unit: Rechargeable lithium-ion

battery LIP-4WM, 3.7V, 370mAh,

Li-ion battery

(1 unit) Charging

stand: AC power adapter DC 6V, AC

100V, 50/60 Hz

Operating temperature

+5°C to +35°C

Battery life 1)

See "Battery life" (page 18).

Main unit dimensions

Approximately 81.9 $\times$ 76.5 $\times$ 15.2 mm

(width/height/depth, excluding protrusions)

Maximum external dimensions 1)

Approximately 84.0 $\times$ 76.5 $\times$ 15.4 mm

(width/height/depth)

mass

Approximately 101g (main unit only).

approximately 111g (including rechargeable battery)

1) Measurement values according to JEITA (Japan Electronics and Information Technology Industries Association) standards

is.

This device is a licensed product based on Dolby Laboratories' U.S. and foreign patents.

Please note that the specifications and appearance of this device may be changed without notice due to improvements.

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Accessories sold separately

Stereo headphones 1) MDR-EX51SP,
MDR-EX71SL, MDR-E931SP active
speakers , SRS-Z510/Z30, etc. MiniDisc (blank disc)
ES series recordable Hi-MD disc HMD1G
Lithium-ion rechargeable battery
LIP-4WM

1) Please purchase headphones with a stereo mini plug. Headphones with a micro plug cannot be used.

The following models are not compatible with this device:

Rotary Commander RM-WMC1, MD Label
Printer MZP-1, IC Memory Repeat
Learning MD Controller RPT-M1

I thought it might be broken.

If you experience any problems while using this device, please try checking the following steps again before contacting our service center. (Please also refer to the message list (page 50).) If any messages are displayed, we recommend that you write them down.

Step 1: Check the

"Troubleshooting" section in this book and look up the relevant item. You will also find various information within the instructions in this book and in the "Message List." Please look up the relevant item.

m

Step 2: Check the "Personal Audio Customer Support" homepage at [http://www.sony.co.jp/support-](http://www.sony.co.jp/support-pa/)

pa/ . This page contains the latest support information, frequently asked questions, and their answers.

m

Step 3: If the problem persists, please contact our Customer Support Center (back cover) or the store where you purchased the product.

When you

About charging

Symptoms	cause	countermeasure
Unable to charge, or unable to charge sufficiently.	The rechargeable battery is not inserted correctly , or the AC power adapter is not connected correctly.	Reinsert the rechargeable batteries correctly, or connect the AC power adapter correctly.
	The battery life may be shorter when the product is new or if it has not been used for a long time, due to the characteristics of the battery.	After several charge-discharge cycles, it will become fully charged.
	The rechargeable battery is completely depleted (nothing is displayed on the display window, even when it's on the charging stand).	Please charge the device. Charging will begin in about 1 minute . If charging does not begin, please place the device back on the charging stand.
	The temperature of the charging location is too low or too high (the message " Charge within +5°C to +35°C" ("CHARGE +5°C to +35°C 41F to 95F") will be displayed).	Please charge the device in a location with a temperature of +5°C to +35°C .
The rechargeable battery ran out even though I wasn't using it.	It does not contain rechargeable batteries.	Please insert rechargeable batteries.
	The "Quick Mode " setting was set to "Quick On" (page 33).	When "Quick Mode" is set to "Quick On," the device remains powered on internally even when nothing is displayed on the screen. This shortens the battery life. If the battery is not fully charged and the setting is "Quick On," the rechargeable battery may be depleted while not in use. In that case, please charge it again.
Even when fully charged, the usable time is only about half of the normal amount.	The battery may have reached the end of its life. Please replace it with a new rechargeable battery.	Sai.
The device and charging stand get hot while charging.	It's not a malfunction.	—

Now playing

Symptoms	cause	countermeasure
Normal playback is not possible. Repeat playback is selected. Press and hold the P-MODE/REPEAT button for more than 2 seconds to remove the (Repeat) display, then start playback (page 27).		

Normal playback is not possible.	I changed the playback mode.	Please switch the main playback mode (page 24) or sub- playback mode (page 27) back to normal playback before starting playback (page 24).
The disc will not start playing from the first track.	The last time I played it, I stopped it halfway through the disc.	Stop the machine once, then use the jog lever (NX+ENTER) on the remote control , or the central control key on the main unit. Press and hold (NX) for more than 2 seconds.
The sound cuts out during playback. It's placed in a location with a lot of vibration. Please use it in a location with less vibration.		
There's a lot of noise.	It's placed near something with a strong magnetic field, like a television. The	Please keep it away from televisions and other electronic devices.
sound doesn't get louder. AVLS (Adaptive Variable Suspension) is working.		Please disable AVLS (page 31).
There is no sound coming from the headphones.	The headphones with the remote control are not properly plugged in.	Please insert it firmly into the i-jack. Please insert the headphone plug firmly into the remote control unit.
	The plug is dirty.	Please wipe the headphone and remote control plugs with a dry cloth.
The disc can be played on other devices. Hi-MD discs cannot be played on devices that do not support Hi-MD . They can only be played on Hi-MD compatible devices.		
If you hold the central control key FF or leave it idle for more than 5 seconds, pressing GROUP before moving it to the FF or FR side will dynamically cancel group skipping, and you will jump to the current group or the next group. (Or to a song several tracks earlier or several tracks later.)		
When fast-forwarding or rewinding while playing an edited song, the sound cuts out.	This is a system limitation. When fast-forwarding — or rewinding while playback is in progress, the playback speed will be faster than usual, which may cause the sound to cut out. (Page 57)	
If you connect a boombox or amplifier to a boombox or amplifier using a mono cable, one side (R channel) will not produce sound, or the boombox or amplifier will not produce sound. Always use a stereo cable.		
The group function is not working. A disk that is not grouped is inserted.		Please insert the disk that is in the group.

When you

Connecting to PC

Symptoms	cause	countermeasure
This device is not recognized by the computer.	The dedicated USB cable is not properly connected. Please check it.	
	I'm using a USB hub.	Please connect it directly to the USB port on your computer.
	Communication failed.	Please unplug the dedicated USB cable, wait for at least 2 seconds, and then plug it back in. If it is still not recognized, disconnect the cable, restart your computer, and then reconnect it.
It doesn't work properly.	I'm using a USB hub.	Please connect it directly to the USB port on your computer.
	It is being used in a place with vibrations. It is being used in a stable place without vibrations.	Please do so.
It cannot save data other than music data.	SonicStage or MD Simple Burner software is running.	Please close the SonicStage or MD Simple Burner software before proceeding.
This is a calculation error between the original file and the computer when transferring music from a PC. —The playback time does not match the playback time on the PC.		
It is not possible to transfer music data to the full recording time of the disc. (For example, it is not possible to transfer 160 minutes of LP2 stereo recording to an 80-minute disc.)	This is a system limitation. Recording is done in units of a few seconds, so if you record many short songs, the amount of so-called "unnecessary" recording increases, and the total time will not match (page 58).	—
There is a difference between the disk capacity displayed on the computer and the actual capacity displayed on the disk.	Disk capacity is expressed in binary on a computer, but it is expressed in decimal on storage media such as disks, which can cause a difference. For more information on disk capacity , please see page 55.	—
The device cannot be operated. When connected to a computer, the device... —		
I can't record using the DOWNLOAD button .	I cannot control my body.	
	It is not connected to a computer. Please connect it using the dedicated USB cable.	
	There are no music CDs in my computer's CD drive .	Please insert a music CD.
	There isn't enough storage space on the disc to record.	Please replace it with another recording disc.
The lid won't open.	The dedicated USB cable was disconnected while transferring/recording/editing from a computer, either because the rechargeable battery was not inserted into the device or because the rechargeable battery was depleted .	Connect the dedicated USB cable, or insert the charged battery and press X.

others

Symptoms	cause	causes
The display window shows "Simple/Advanced".	When attempting to operate the menu for the first time after purchase (by pressing the jog dial on the remote control	Please set the menu mode (pages 21 and 31).
Some menu items are not displayed.	for more than 2 seconds), the menu mode is set to "Simple".	Set the menu mode to "Advanced" to display all menu items (page 31).
The device is unresponsive, or the rechargeable battery is not charged. Please charge it. It may also not function correctly.		
	The volume is low.	Turn up the volume.
	There is no disc inserted.	Please insert the recorded disc.
	The hold function is active (the "HOLD" display appears when you press the operation button on the device).	Release the hold function by moving the HOLD switch in the opposite direction of the arrow (pages 13, 14, and 17).
	The lid isn't closed properly.	Close the lid until you hear a click.
	Condensation has formed (water droplets have accumulated inside).	Remove the disc and leave it for several hours.
	The AC power adapter is not properly plugged in.	Please plug the DC IN 6V jack firmly into the power outlet.
	The battery is low (the "Low Battery" indicator is flashing or nothing is displayed).	Charge the device (pages 16 and 17). Alternatively, connect the AC power adapter.
	The disc is damaged, or the information such as the content of the recordings or edits is not correctly entered.	Please try reinserting the disc or re-recording. If the error message still appears, please try using a different disc.
	The internal system is malfunctioning. During use, it is subjected to strong noise due to shocks, excessive static electricity, or abnormal power voltage caused by lightning strikes.	Please try the following steps again: 1. Disconnect all power sources and unplug the dedicated USB cable. 2. Leave it like that for about 30 seconds. 3. Connect the power.
The LCD display is different from the normal display.	I unplugged the power cord.	Leave it for a while, or turn on the power and press any of the operation buttons.
When using the AC power adapter, the display window is faintly lit even when the device is not operating.	The light stays on after it has reached approximately 80% charge until it reaches 100% charge (page 17).	—
The 60/74/80 minute disc has not been initialized or is not in the selected operating mode using the SonicStage software .	When using 60/74/80 minute blank discs with this unit, the operating mode will follow the setting in the "Disc Mode" menu.	Please set your desired operating mode in the "Disc Mode" menu (page 34).

When you

Message List

If a message appears on the remote control's display window, please check it according to the table below.

stomach.

Display (Japanese)	Display (English)	meaning	countermeasure
I can't increase the volume because AVLS is ON.	AVLS NO VOLUME OPERATION	The AVLS setting is set to "AVLS On," so the volume cannot be increased any further (page 31).	Please set AVLS to "AVLS Off".
This is a blank disk.	The BLANKDISC contains a disc with nothing recorded on it.	—	—
Please wait a moment.	BUSY WAIT A MOMENT	Reading information from the disc. Processing the content of the recording or editing.	Please wait a moment. It may occasionally take up to a minute.
This disk cannot be used for recording or playback.	CANNOT RECORD OR PLAY	The disc does not contain any playable music data. The music data or management file is corrupted.	Please replace the disc with another one, or initialize the disc using SonicStage.
Please charge within a temperature range of +5y to +35y.	CHARGE 5y~35y 41F~95F	I tried to charge it at a temperature other than the specified temperature.	Please charge within the specified temperature range (+5°C to +35°C).
Charging in progress.	Charging	This is displayed while charging (pages 16 and 17).	—
The DC-IN voltage is too high.	DC IN TOO HIGH	The power supply voltage is too high (the specified AC power adapter is not being used).	Please use the designated AC power adapter.
Disk space is full.	If the remaining time on the FULL DISC is 48 seconds or less, recording may not be possible (during recording).	Please replace it with another recording disc.	—
DL READY DL READY	MD Simple Burner is ready to record CDs in simple mode (see installation and operation guide).	—	—
You can replace the disc.	EJECT DISC OK. Communication with the computer has ended, so it is safe to remove the disc and disconnect the dedicated USB cable.	—	—
There are no more songs after this.	End	The end of the disc was reached while playback was in progress or while the jog lever was being moved to the > side (when the central control key on the main unit was tilted to the FF side).	—
ERROR	ERROR	The internal system is malfunctioning.	Please follow steps 1-3 in the table on page 49.

Display (Japanese) Display		meaning	
(English) Error XX ERROR The XX internal system is malfunctioning. The call failed.			Please follow steps 1-3 in the table on page 49 of the countermeasures . If the error message still appears, please contact our customer support center.
This disc is unusable.	FORMAT ERROR DISC	A disc in a format that is not supported by this machine has been inserted.	Please insert an MD or Hi-MD formatted disc.
		A disk formatted on a computer was inserted.	When formatting on a computer , always use SonicStage.
It is on HOLD. HOLD		The hold function is active. Release the hold function by turning the HOLD switch on the device in the opposite direction of the arrow (pages 13, 14, and 17).	
The battery is dead.	LOW BATTERY	The battery is dead.	Please recharge the rechargeable battery (pages 16 and 17).
Memory overload .	MEMORY OVER: Started recording in a place with vibrations.		Please record in a place without vibrations.
Main play mode and song selection are currently underway.	While the main playback mode was selected using the NAVIGATION remote control, I operated a button on the main unit.		—
No songs are bookmarked.	NO BOOKMARKED TRACK	I tried to play a bookmarked disc that did not have bookmarks.	Please bookmark this page (page 26) before proceeding. Please use the disk where the bookmark is located.
Digital copying is not possible.	NO DIGITAL COPY	Duplication is prohibited by the Serial Copy Management System (SCMS). No disc is inserted.	—
No disc is inserted.	NO DISC	Please insert a disc.	
This is a disk that is not stored in memory.	NO DISC MEMORY	An attempt was made to delete disk memory on a disk that was not registered to the disk memory.	—
Artist name not entered.	NO NAME	On a disc that does not contain any songs with an artist name, the main playback mode was set to artist playback. On a disc that does not contain any songs with an artist name, while searching for songs, I tried to select "Artist Search" ("by Artist") .	—

When you

Display (Japanese)	Display (English)	Meaning	
I cannot operate it.	While setting up a program using the NO OPERATE remote control, I attempted to skip a group.	—	
Album name not entered.	NO TITLE	The main playback mode was set to album playback on a disc that did not contain any songs with an album title. The "Album Search" ("by Album") option was attempted while searching for songs on a disc that did not contain any songs with an album title.	—
Nothing was recorded.	NO TRACK: Attempted to play a disc with no recordings.	Please insert the recorded disc.	
Connecting to PC	PC -- MD	It is connected to a computer.	Please disconnect it from the computer (page 37).
The disk is in erase protection mode.	PROTECTED DISC	The disk is in erase protection mode (page 44).	Please return the erase prevention knob to its original position.
Please press the STOP button .	PUSH STOP BUTTON	While the dedicated USB cable was connected and the device was recording disk information , I attempted to open the lid by sliding the OPEN knob.	Please wait until the "SYSTEM FILE WRITING " message disappears before proceeding.
Loading error.	READ ERROR: The disk information could not be read correctly.	Please reinsert the disc.	
Recording stopped because the temperature rose too high.	TEMP OVER REC STOP	Recording was stopped because the device overheated during recording.	Let the device rest in a cool place for a while before using it.
There is an anomaly in the TOC data.	TOC DATA ERROR	The disk information could not be read correctly.	Please replace it with another disc.

Warranty

Warranty and after-sales

Card: This product comes with a warranty card.

service Please pick it up at the store where you purchased the product.

- Please fill in the required information and check the

After-sales service this document safe.

Check this first if something is wrong of purchase.

vinegar.

Please review this instruction manual again. • If you are still feeling

unwell...

Please contact the store where you purchased the product or the nearest Sony service center listed in the attached "Sony Customer Service

Information" document. •

Repairs during the warranty period will be carried out according to the terms of the warranty certificate. Please refer to

the warranty certificate for details.

- Repairs after the warranty period will be charged upon request if the function can be maintained through repair.
- Regarding parts availability: We maintain repair parts (parts necessary to maintain the product's functionality) for our portable MiniDisc recorders for 8 years after production is discontinued. This parts availability period will be considered the repairable period. Even after the availability period has expired, repairs may still be possible depending on the nature of the malfunction, so please contact the store where you purchased the product or our service center.

It's useful to know

Here is some useful information to know when using a portable MD player.

I will explain it simply in a Q&A format.

Q1: What is Hi-MD?

A1: Hi-MD is a new MiniDisc format.

The new MiniDisc format uses a different recording method than conventional MiniDiscs, allowing for even longer recording times. Furthermore, it can now store data other than music (such as text and image data) on MiniDiscs, making it suitable as an external device for computers.

For details on the features of Hi-MD, please refer to the included "What you can do with a Hi-MD Walkman . "

Q2: What is ATRAC3plus?

A2: ATRAC3plus is an audio compression technology that is a further development of ATRAC3.

While the compression ratio of the previous ATRAC3 (in this unit's LP2/LP4 stereo mode) was 1/10th that of a CD , ATRAC3plus (in this unit's Hi-SP/Hi-LP stereo mode) achieves a much higher compression ratio of 1/20th compared to a CD , while also providing high sound quality.

Q3: What are Hi-MD mode and MD mode?

A3: This unit has two modes, "Hi-MD mode" and "MD mode," and automatically detects the mode of the inserted disc. When a blank disc is inserted into the unit, you can choose which mode to record in (excluding 1GB discs specifically for the Hi-MD standard). Set the disc mode setting in the menu (page 34) to "Hi-MD" or "MD" before recording.

Q4: What is Linear PCM?

A4: This is an audio recording method that does not use digital compression. Recording with this method allows you to enjoy the same sound quality as a CD.

Q5: What are "system files"?

A5: This is the area on the MiniDisc that records information other than

audio. It records which song is which number and where it is located on the disc. If the MiniDisc is a book, this is the index and table of contents.

When recording, recording or deleting track marks, or moving songs, the MiniDisc recorder rewrites the system file (during this time, the display window will show "System file writing"). During this time, it is recording to the disc, so do not subject it to shocks or unplug the power. Not only may the recording not be done correctly, but the contents of the disc may be lost.

Q6: What is sampling rate?

A6: Sampling rate is a number that represents how much digital signal is converted from one second of audio.

This is a

value. Generally, the higher the value, the higher the sound quality. Normally, digital dubbing is not possible between devices with different sampling rates. A sampling rate converter makes this possible. The converter converts a digital signal into a digital signal for another sampling rate. This unit has this converter built in. Signals with different sampling rates that come into the optical digital input terminal (BS tuner: 32kHz, DAT: 48kHz, etc.) are converted by the converter to the MD sampling rate (44.1kHz) and recorded.

Q7: What is the ATRAC/ATRAC3 DSP TYPE-S?

A7: Employs the ATRAC-compatible DSP TYPE-S found in Sony's high-spec MD decks.

You can enjoy high-quality sound when playing songs transferred in MDLP mode or at 132/105/66 kbps. Furthermore, this DSP inherits the processing capabilities of the ATRAC-compatible DSP TYPE-R. It also excels at playing back songs recorded in SP stereo using TYPE-S or TYPE-R compatible devices.

Q8: What is Net MD?

A8: You can record music data stored on your computer onto a MiniDisc via a USB cable.

This is a

standard. Conventional MDs could only record analog audio sources from microphones or analog inputs, or PCM audio sources from music CDs, making recording from a computer impossible. However, by using music management software (such as SonicStage) based on copyright protection technologies such as "OpenMG"1) and "MagicGate"2) to convert the audio data into the "ATRAC"3) and "ATRAC3"3) formats, recording to MDs became possible.

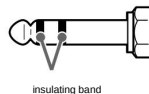
1) Copyright technology for managing music data such as CDs imported into a computer. 2)

Technology for authenticating whether a computer and a Net MD device support copyright protection. 3) Format converted during recording on conventional MDs.

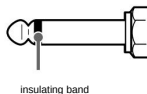
Q9: How can I tell the difference between a stereo plug and a mono plug?

A9:

Stereo plug: Two insulating strips



Mono plug: Has one insulating band



Q10: How long can I record on one disc?

A10: Recording time varies depending on the type of disk and transfer mode. Check the following table for recording time.

Please do so.

If you are using Hi-MD mode

When transferring from a computer	Recording time 1)			
Codec/Bitrates: Hi-MD Standard Only	1GB disk	80-minute disc	74-minute disc	60-minute disc
Linear PCM/1.4Mbps	Approximately 1 hour 34 minutes	Approximately 28 minutes	Approximately 26 minutes	Approximately 21 minutes
ATRAC3plus/256kbps	Approximately 7 hours 55 minutes	Approximately 2 hours 20 minutes	Approximately 2 hours 10 minutes	Approximately 1 hour 45 minutes
ATRAC3plus/64kbps	approximately 34 hours	approximately 10 hours 10 minutes	approximately 9 hours 25 minutes	approximately 7 hours 40 minutes
ATRAC3plus/48kbps ATRAC3/132kbps	Approximately 45 hours	approximately 13 hours 30 minutes	approximately 12 hours 30 minutes	approximately 10 hours 10 minutes
ATRAC3/105kbps	Approximately 16 hours 30 minutes	approximately 4 hours 50 minutes	approximately 4 hours 30 minutes	approximately 3 hours 40 minutes
ATRAC3/66kbps 1) When	Approximately 20 hours 50 minutes	approximately 6 hours 10 minutes	approximately 5 hours 40 minutes	approximately 4 hours 40 minutes
transferring a 5-minute song	Approximately 32 hours 50 minutes	Approximately 9 hours 50 minutes	Approximately 9 hours	Approximately 7 hours 20 minutes

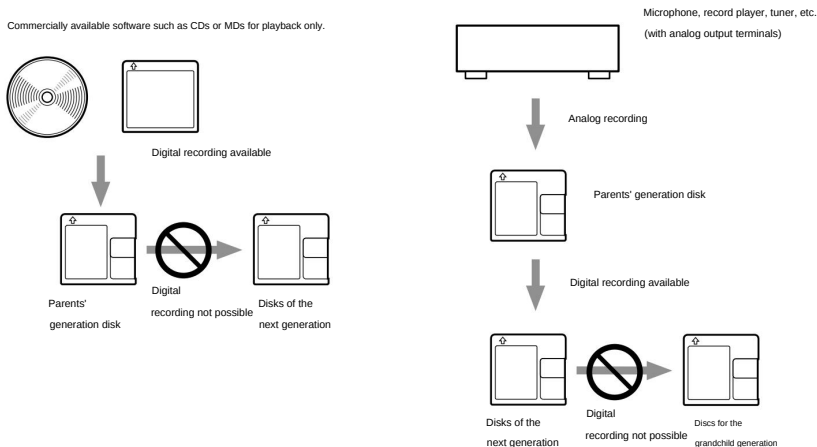
If you are using MD mode

When transferring from a computer	Recording time 1)		
Codec/Bitrates 80-minute disc		74-minute disc	60-minute disc
Stereo transfer ATRAC/292kbps approx.	80 minutes approx.	74 minutes approx.	60 minutes
ATRAC3/132, 105kbps	approximately 2 hours 40 minutes	approximately 2 hours 28 minutes	approximately 2 hours
ATRAC3/66kbps	Approximately 5 hours 20 minutes	approximately 4 hours 56 minutes	approximately 4 hours

1) When transferring a song that is 5 minutes long

Q11: Can I record a digitally recorded disc onto another disc?

A11: MiniDiscs recorded using the optical digital input terminal from commercially available software such as CDs or playback-only MDs cannot be digitally recorded on other devices. This unit complies with the "Serial Copy Management System (SCMS)" to protect the copyright of music software. To record a MiniDisc recorded via optical digital input onto another MiniDisc, please use the analog input (LINE IN).

**Please note**

Removing or altering copy protection signals to create copies, even for personal enjoyment, is prohibited by law.

Q12: How are track numbers assigned to MDs?

A12: When recording from media with track numbers, such as a CD, place the track number in the same location as the original CD or media.

Yes, it will

be added. Also, if the new track number starts at "-0:03" on the CD, the new track number will be added to the MD when it reaches 0:00.

Q13: When I fast-forward or rewind while playing an edited song, does the sound cut out? why?

A13: This is a system limitation.

When fast-forwarding or rewinding while playback is in progress, playback is faster than usual.

Therefore, if short songs are scattered throughout the disc, it may take time to find them, and the sound may be interrupted.

Q14: Why doesn't deleting songs increase the remaining recording time on the disc?

A14: This is a system limitation. When

displaying the remaining recording time on a disc, portions of 12 seconds or less (stereo recording), 24 seconds or less (LP2 stereo and mono recording), or 48 seconds or less (LP4 stereo recording) are ignored . Therefore, deleting several short songs may not increase the remaining recording time.

Q15: Why does the sum of the time recorded on the disc and the remaining time not match the maximum recording time (60 minutes, 74 minutes, 80 minutes)?

A15: This is a system limitation. Normally,

recording takes about 2 seconds in stereo recording mode, and about 4 seconds in LP2 stereo or mono recording mode. When recording in LP4 stereo, the minimum recording unit to the disc is approximately 8 seconds. When recording is stopped , even if the last part of the recording is actually less than 2 seconds (4 seconds or 8 seconds), approximately 2 seconds (4 seconds or 8 seconds) of space is used. Also, when recording is stopped and then started again , approximately 2 seconds (4 seconds or 8 seconds) of space is left at the beginning of the recording . This is to prevent accidentally erasing the previous track when starting a new recording. Therefore, the actual recording time is reduced by up to 6 seconds (12 seconds or 24 seconds) from the maximum recording time each time recording is stopped.

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Contact Us

For any questions, technical inquiries, or consultations regarding this device, please use the contact information below.

- To find information on our website, please visit **Sony** Personal Audio Customer Support (<http://www.sony.co.jp/support-pa/>). This site provides the latest support information for this product, as well as answers to frequently asked questions.
- For inquiries by phone or fax, please contact **our** Customer Service Center (see below).
 - This product is categorized under [Audio] - [Walkman]. • When contacting us, please provide the following information:
 - For questions regarding the main unit:
 - Model name: • Serial number: See the separate "Customer Registration Request" for its location • Details of your inquiry:
 - Please be as detailed as possible • Date of purchase • For questions regarding the included software: • Software version: • Your computer (manufacturer/model name) • Operating system name installed on your computer: • Memory capacity/free hard disk space: • CD-ROM drive model/type (external or internal): • Error message (if one is displayed):

商品の修理、お取り扱い方法、お買物相談などの問い合わせ

● <http://www.sony.co.jp/SonyDrive/>

お客様ご相談センター

● ナビダイヤル  0570-00-3311

(全国どこからでも市内通話料でご利用いただけます)

● 携帯電話・PHSでのご利用は... 03-5448-3311

(ナビダイヤルがご利用できない場合はこちらをご利用ください)

● FAX 0466-31-2595

受付時間 : 月~金 9:00~20:00 土・日・祝日 9:00~17:00
お電話は自動音声応答にてお受けしています。

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