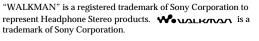
3-247-812-**13**(1) SONY

Portable MiniDisc Player

Operating Instructions







MZ-E710





WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

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

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the

Certain countries may regulate disposal of the battery used to power this product. Please consult with

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

CAUTION — INVISIBLE LASER RADIATION WHEN OPEN

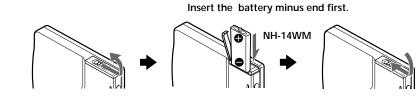
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

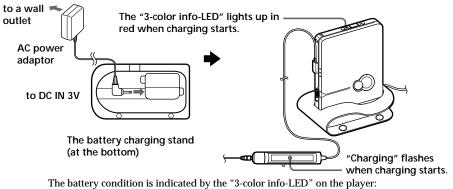
Getting started

Charge the supplied rechargeable battery before using it for the first time.

Insert the rechargeable battery.



Charge the rechargeable battery.



Red → Orange → LED off (approx. 3.5 hours later)
The player can be used when the LED has turned off. The battery will be fully charged

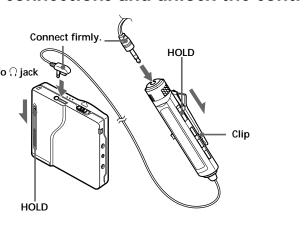
For models supplied with the AC plug adaptor

If you start playback or another operation while the unit is charging, charging will stop.

Using the dry battery Attach the dry battery case to the Insert the battery minus end first.

Insert a LR6 (size AA) alkaline dry battery To operate the player for the longest possible time, use the dry battery together with a fully charged rechargeable battery

Make connections and unlock the controls.

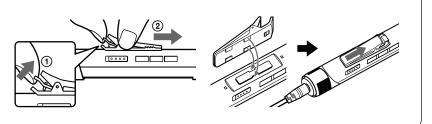


Using the clip for the remote control

It may be hard for you to read the indications in the display if the remote control is attached upside down with the clip in its current position. In this case, attach the clip in the opposite direction as shown below

1 Remove the clip.

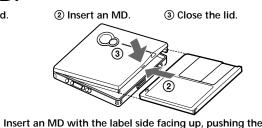
2 Attach the clip in the opposite direction.



Playing an MD

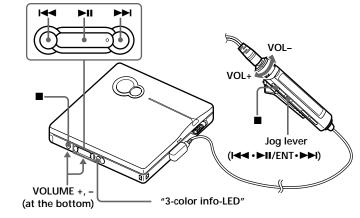
1 Insert an MD.





MD to the direction of the arrow in the illustration

Play an MD.



- ① Press the jog lever (►II) on the remote control. (Press ►II on the player.) A short beep sounds in the headphones/earphones. The LED lights up.
- ② Turn the volume control towards VOL + or on the remote control to adjust the volume. (Press VOLUME + or - on the player.) The volume indicator appears in the display, allowing you to check the

To stop play, press ■.

Cue to the beginning of Press 🗀 + or – button

 $^{\scriptscriptstyle 1)}$ For more details, see "Using the group function

see "When to replace or recharge the battery" on the back page.

Operating status

About the "3-color info-LED"

track numbers

(Index search)

settings¹⁾)

every 10th track

Remove the MD

(only during playback of

the disc with no group

A long beep sounds in the headphones/earphones Playback starts from the point you last stopped playing. To start playback from the beginning of the disc, press and hold the jog lever (>II) for 2 seconds or more on the

То	Do this (Beeps in the headphones/earphones)	
Pause	Press the jog lever (►II) on the remote control (continuous short beeps). (Press ►II on the player.) Press the jog lever (►II on the player) again to resume play.	
Cue to the current track or the previous track	Slide the jog lever towards ◄ on the remote control (three short beeps). (Press ► on the player.)	
Cue to the next track	Slide the jog lever towards ▶▶ on the remote control (two short beeps). (Press ▶▶ on the player.)	
Go backwards or forward while playing	Slide and hold the jog lever towards ◄ or ► on the remote control. (Press and hold ◄ or ► on the player.)	
Searching for a specific position while viewing a elapsed time (Time search)	While the player is paused, slide and hold the jog lever towards I◀◀ or ▶▶ on the remote control.	
Searching for a specific track while viewing	While the player is stopped, slide and hold the jog lever towards l◄ or ▶▶ on the remote control.	

Press ■. and then slide OPEN.2

²⁾ Once you open the lid, the point to start play will change to the beginning of the first track (except when the disc information has been stored in the personal disc memory).

The LED indicates the current operating mode, charging status, and battery condition. For

Playing a disc with no group settings

Cueing to another group (Group Skip)

Playing a disc with group settings

details about the charging status, see "Getting started." For details about the battery condition

or ▶ on the remote control.

You can use the repeat function for normal play, single-track play, shuffle play, and

Playing a track repeatedly

1 During playback in the selected play mode, press and hold P MODE/⊊ for 2 seconds or more "

¬" appears in the display

Repeat play indication *♀️003* 13:52

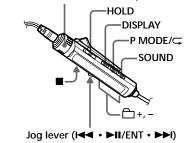
To cancel repeat play

By pressing the P MODE/← button during repeat play, you can change the play mode to be used with repeat play.

only (Bookmark Play)

playback Remote control

► Various ways of



ide bii bbi

-GROUI

Selecting the play mode

'3-color info-LED"

You can select from the various play modes sequence (Program Play)

1 Press P MODE/ repeatedly. Each time you press the button, the play mode changes as follows: Play mode indication

2003 1	3:52
Display*	Play mode
(none) (normal play)	All the tracks are played once.
1 (single-track play)	A single track is played once.
(bookmark play)	Bookmarked tracks play back in order of their track number.
SHUF (shuffle play)	All the tracks are played in random order.

The tracks are played in (program play) the order that you specified. Group play mode () appears whenever you play a disc with group settings. For more details, see "Using the group function."

All program settings are lost when the lid is

Listening to selected tracks

You can bookmark tracks on a disc and play them only. The sequence of bookmarked tracks cannot be changed.

To bookmark the tracks

1 While playing the track you want to bookmark, press and hold the jog lever for 2 seconds or more.

₽003 **₽**01/20 Flashing slowly

The first track for bookmark play is set 2 Repeat step 1 to bookmark other tracks ou can bookmark with up to 20 tracks.

To play the bookmarked tracks

1 During playback, press P MODE/⊊ repeatedly until " TrPLAY?" appears in the display.

2 Press the jog lever. The bookmarked tracks start playing, starting with the smallest track number.

To erase a bookmark While playing the track for which you want to erase the bookmark, press and hold the jog

lever for 2 seconds or more

If you open the lid, all bookmarks are

Listening to tracks in a desired

- repeatedly until "PGM" appears in the
- **2** Slide the jog lever repeatedly to select a track, and then press the jog lever to enter that track.

CERTIFICATION (PGMO1) track number programmed number

- **3** Repeat step 2 to program more tracks.
- **4** After programming the tracks, press and hold the jog lever for 2 seconds or The program is stored and playback starts from the first track.

The program play settings will remain in memory even after playback finishes or is

Using the group function

playback of discs with group settings. The group function is convenient for playback of MDs on which several albums or CD singles have been recorded in MDLP (LP2/LP4)

group mode.

☐ SHUF ⊂

□ PGM ⊂

group function

Specifying groups

Play mode

program

Playing groups in a desired

Do the procedure explained in "Listening to

tracks in a desired sequence (Program Play

sequence of tracks within the groups cannot

to play back groups in a desired sequence

An MD recorder with the group function

Refer to the operating instructions of the MD

An MD recorder that does not support the

The procedure below allows you to assign

tracks to a group using the disc name-editing

1 Change the disc name to the following

0;[Disc name] // [First track of group 1]

[Last track of group 1]; [Name of group 1] //

[First track of group 2] - [Last track of group 2]

// Separator between groupsHyphen placed between the first

Separator between track number and

(Ex.) Set the following groups for the disc

My Favorites 2002 winter

Jun&Tac"sunshine head

THE NIGHT BUTTERFLYS

track and the last track

by using the MD recorder:

[Name of group 2] // ...

(A) Disc name

B Track number

named "Collections

Group name for tracks 1-7:

Group name for tracks 8-17:

Group name for tracks 18-24:

Group name for tracks 25-32: Dream World/Kiss Me!

1–7;My Favorites "2002winter" /

8–17;Jun&Tac"sunshine head"// 18–24;THE NIGHT BUTTERFLYS//

• The characters ":". "/". and "-" can be used in

You can register the same group name more

• You can specify a group without entering a

 Up to 99 groups can be registered on a single MD. The actual number, however, will be less than 99 if you have entered more characters

• Depending on the specifications of your MD

recorder, the group function may not work

Text string entered

0:Collections

a group name.

group name (©) for it.

than are allowed per disc.

Group name

You can program up to 10 groups. The

sequence (Group Program

Repeat play of tracks

Repeat shuffle play of

Repeat play for group

tracks within a group

within a group

What is a disc with group settings? The player can play back tracks in units of groups; that is tracks that have been recorded on a disc as part of separate groups, as shown The "3-color info-LED" lights up in green

when a disc with group settings is being Before group settings are made

Disc



Track 1 to 5 are assigned to group 1. Track 8 to 12 are assigned to group 2. Track 13 to 15 are assigned to group 3 Track 6 and 7 are not assigned to a

After setting the group (group play)

	— Disc —
oup 1	Group 2 Group 3
345	6 7 12345 123

Tracks that were not assigned to a group are treated as being part of "Group -

The player does not support the recording of

group settings. Use an MD recorder to set the group. For details, see "Registering groups using an MD recorder."

Playing a track in group play

In group play, all groups are played in order, starting with group 1, followed by the unassigned tracks ("Group - -"). Playback stops after all the tracks have been played.

repeatedly until "appears in the

1 During playback, press P MODE/⊊

Cueing to the start of a group

On the remote control

1 During playback, press ☐ + or -. Pressing the ☐ - button cues to the first track in the current group. Pressing the button again cues to the first track of the previous group. During group cuein the "3-color info-LED" on the player flashes in orange.

On the player

- **1** During playback, press GROUP. The "3-color info-LED" on the player lights up in orange.
- **2** Press | **◄** or **▶▶**|.

Selecting the play mode for group play (Group Play Mode)

The shuffle play and program play function can be used during group play mode.

1 Press P MODE/⊊ repeatedly. After normal playback, the following play modes are displayed:

Display	riay moac
(Normal Group Play)	All tracks in the groups play back once (starting with the first track in group 1).
SHUF (In-Group Shuffle)	Shuffle play starts with the group that is currently playing, and continues with the succeeding groups.
PGM	The groups are played

specified.

Repeat play for the selected Adjusting the sound group play mode (Group Repeat Play)

1 During playback in the selected group play mode, press and hold You can vary the virtual sound to create different acoustics, or modify the sound to P MODE/ for 2 seconds or more. suit your taste and store it for later use. Playback repeats in the respective The following two effects can be selected.

V-SUR (Virtual-Surround VPT Acoustic Provides 4 kinds of virtual-surround 6-BAND EQUALIZER

Provides 6 different sound qualities Varying the virtual sound to

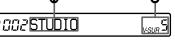
1 During playback, press SOUND

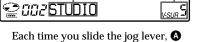
create different acoustics

(Virtual-Surround)

2 Press and hold SOUND for 2 seconds

3 Slide the jog lever repeatedly to select





Registering groups using an and B change as follows

STUDIO V-SUR S LIVE v-sur L CLUB V-SUR C ARENA V-SUR A

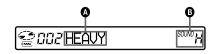
4 Press the jog lever to enter the selected surround mode.

Selecting the sound quality (6-Band Equalizer)

repeatedly to select "SOUND." **2** Press and hold SOUND for 2 seconds

1 During playback, press SOUND

3 Slide the jog lever repeatedly to select



Each time you slide the jog lever, **A** and **B** change as follows **HEAVY** SOUND H POPS SOUND P JAZZ SOUND J

SOUND U

SOUND 1

UNIQUE

CUSTOM1

To cancel the procedure Press and hold the DISPLAY button or the ■ button for 2 seconds or more

To cancel the setting Slide the jog lever repeatedly in step 1 above until the indication at **B** disappears.

(Virtual-Surround • 6-Band Equalizer)

1 Do steps 1 to 3 above, and then slide the jog lever until "CUSTOM1" or "CUSTOM2" appears. **2** Press the jog lever. **3** Slide the jog lever repeatedly to select the

♀∭ /C1 ☐————

To modify and store the sound

"CUSTOM1" and "CUSTOM2."

Frequency (100 Hz) From the left, you can select 100 Hz, 250 Hz, 630 Hz, 1.6 kHz, 4 kHz, or 10

4 Turn the volume control repeatedly to

[**19** 00 fc1 □----Level (+10 dB)

You can select from among sever -10 dB, -6 dB, -3 dB, 0 dB, +3 dB, +6 dB, +10 dB

adjust the level.

 ${f 5}$ Repeat steps 3 and 4 to adjust the level

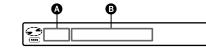
6 Press the jog lever to enter the selection.

► Other operations

Viewing the track name

and playing time in the display on the remote control You can check the track or disc name, track

number, the elapsed playing time of the current track, the number of the tracks recorded on the MD, the group name, and the total number of tracks in a group.



Press DISPLAY on the remote control Each time you press DISPLAY, the display changes as the follows:

Track number The elapsed time Track number Track name The number of total Group name tracks in the group The number of Disc name

total tracks

Track number

Track number

• Depending on whether group play or normal play is selected, the operating conditions, and the disc settings, you may not be able to select appear different.

Sound mode

SP/LP mode

The G-PROTECTION function was

developed to provide a higher level of shock resistance than that of existing players in order to allow the player to be used while

The playback sound may skip if:

• a dirty or scratched MiniDisc is played.

CUSTOM2 **4** Press the jog lever to enter the selected During playback, the SP/LP mode appears SOUND mode nomentarily and is then replaced by the

Suppressing the skips of the sound (G-PROTECTION)

(Quick Mode)

After pressing the playback button or cueing to a track, you can start playback quickly. This procedure can be done by the remote

- "OPTION" appears in the display, and then press the jog lever.

2 Slide the jog lever repeatedly until

- "PowerMode" appears in the display and then press the jog lever. **4** Slide the jog lever repeatedly until
- "QUICK" appears in the display, and then press the jog lever to enter the "QUICK" appears in the display

To cancel the procedure

Press and hold the DISPLAY button or the ■ button for 2 seconds or more

To cancel the setting

- When the power mode is set to "QUICK," the power remains on within the player even nothing appears in the display. This leads to a
- closing of the lid) occurs for 17 hours, the ower in the player automatically turns off For this reason, the next time you start playback or do another operation, the player will not respond quickly. The unit, however will return to quick mode afterwards.

Setting the alarm (Melody Timer) The alarm is convenient way to remind

The speed control function is useful for language study and other purpose. This ction changes the playback speed withou changing the playback pitch. The playback speed can be varied from +100% to -50% the normal speed, in 13 steps This procedure can be done by the remote

- DISPLAY for 2 seconds or more.
 - **2** Slide the jog lever repeatedly until 'USEFUL" appears in the display, and then press the jog lever.

off while the player is stopped

3 Slide the jog lever repeatedly until M-TIMER" appears in the display and then press the jog lever.

I SECONDER 15

4 Slide the jog lever repeatedly until "ON" appears in the display, and then press the jog lever. the sound.

| **200**2 DPC⟨+ 50%⟩

4 Slide the jog lever repeatedly to select the speed, and then press the jog lever to enter the speed.

"DPC" appears in the display.

reverts back to the normal speed (0%)

noise or an echo in the playback.

individual discs

whenever the disc is inserted

Volume

Play mode

Bookmark

Program setting

When using digital pitch control, you may hear

Storing the settings for

(Personal Disc Memory)

Settings can be memorized for a disc. Once

display, the settings are recalled, and applied

nemorized, "PERSONAL" appears in the

The following settings can be stored:

• Virtual surround/6-band equalizer

• Playback speed (Digital Pitch Control)

This procedure can be done by the remote

2 Slide the jog lever repeatedly until

3 Slide the jog lever repeatedly until

"Entry?" flashes in the display

and then press the jog lever

4 Press the jog lever to enter the

|‱*‱* Œntry?{

then press the jog lever.

1 Press and hold DISPLAY for 2 seconds

"USEFUL" appears in the display, and

"PERSONAL" appears in the display,

"Entry OK" appears in the display and

the disc settings are stored in the

To erase the information recorded

ert the disc whose information is to be

erased and verify its contents. After step 3

above, slide the jog lever repeatedly to flash

"Erase?" in the display. And then press the

jog lever to enter the selection. "Erase OK"

If you try to erase the disc information of a

disc that has never been stored, "No Entry!"

• Settings can be stored for up to 20 discs. Any

settings for the MD with the oldest playback

• If you use another MD recorder to edit or add

yourself of important times, such as when to

off in 1 to 99 minutes. The alarm will also go

Press and hold DISPLAY for 2 seconds

get off the train. The alarm can be set to go

This procedure can be done by the remote

recognizable by the player and the stored

information will become useless.

tracks to a disc whose settings have been stored

settings stored thereafter will replace the

in personal disc memory

appears in the display and the disc

information is erased.

appears in the display.

5 Slide the jog lever repeatedly to select the melody, and then press the jog

Display	Alarm sound
"TIMER 1"	Classical music 1
"TIMER 2"	Classical music 2
"TIMER 3"	Classical music 3

6 Slide the jog lever repeatedly to specify

*∰ 00 ¦*TIME:01

Each time you slide the jog lever, the then press the jog lever. indication moves from "TIME:01" to "TIME:99" (1 minute to 99 minutes) in 3 Slide the jog lever repeatedly until one- minute intervals.

7 Press the jog lever to enter the setting. To cancel the procedure

Press and hold the DISPLAY button or the button for 2 seconds or more.

To check the remaining time until the alarm Stop playback. The remaining time will appear in the display after a short while Do steps 1 to 6 again to display the remaining

To cancel the alarm settings

time during play or play-pause

To stop the alarm Press any button to stop the alarm.

After sounding for 1 minute, the alarm will automatically stop and the alarm setting will e canceled. If the alarm stops during stop mode, then the power will automatically turn alarm stops while an MD is playing, the olayback will continue

The timer will begin counting from the moment you select "ON" in step 4. When you change the alarm setting in step 6, timer will begin counting

Protecting your hearing (AVLS)

AVLS (Automatic Volume Limiter System) function keeps down the maximum volume **1** During playback, press and hold

- DISPLAY for 2 seconds or more. **2** Slide the jog lever repeatedly until
- "OPTION" appears in the display, and then press the jog lever. **3** Slide the jog lever repeatedly until
- **4** Slide the jog lever repeatedly until "AVLS ON" appears in the display and then press the jog lever to enter

To set the AVLS function on the

During playback, slide HOLD in the direction of ▶, and then while pressing VOLUME -, slide HOLD in the opposite direction.

On the remote control, select "AVLS OFF" in step 4 above and press the jog lever. On the player, during playback, slide HOLD pressing VOLUME +, slide HOLD in the opposite direction.

Turning off the beep sound

You can set the beep so that it is not emitted when the player and the remote control are This procedure can be done by the remote

- **1** Press and hold DISPLAY for 2 seconds
- Slide the jog lever repeatedly until "OPTION" appears in the display, and
- "BEEP" appears in the display, and then press the jog lever. Slide the jog lever repeatedly until
- "BEEP OFF" appears in the display. and then press the jog lever to enter To cancel the procedure Press and hold the DISPLAY button or the ■

To cancel the setting Select "BEEP ON" in step 4 above.

Turning on/off the

the remote control

remote control.

backlight in the display on

You can set the backlight in the display on the

1 Press and hold DISPLAY for 2 seconds

This procedure can be done by the remote

• If you end the procedure with step 4, the previous setting is automatically used

> **2** Slide the jog lever repeatedly until 'OPTION" appears in the display, and then press the jog lever.

Slide the jog lever repeatedly until "Backlight" appears in the display, and then press the jog lever.

> AUTO The backlight lights when you operate the player or the remote control, and automatically turns off when no operation is made for a while (factory setting).

player is operating. The backlight stays off.

5 Press the jog lever to enter the setting.

"AVLS" appears in the display, and then press the jog lever.

"AVLS ON" appears in the display

To cancel the AVLS function

4 Slide the jog lever repeatedly until

To cancel the procedure Press and hold the DISPLAY button or the

button for 2 seconds or more. To turn on the "3-color info-LED"

Select "NORMAL" in step 4 above.

the selection

▶Power sources

"PowerSave" appears in the display,

and then press the jog lever to enter

The "3-color info-LED" turns off.

When to replace or recharge the battery

Indicator on the remote control

You can check the battery condition through the battery indicator on the remote control and the "3-color info-LED" on the player while using the player.

Battery power decreasing Weak battery

The battery has gone out. "LOW BATT" flashes in the display, and the power goes off Indicator of the "3-color info-LED" on the

The LED lights up. There is sufficient The LED flashes slowly. Battery power

The LED flashes quickly. The battery is low The LED will soon turn off and the supply of power will

indicated when you fast forward or fast reverse

(Unit: Approx. hours) (JEITA2)

46

77 93

123 148

SP Stereo LP2 LP4

an MD, or when you use the player at a very

60

Measured with the power save function on (see

"Preserving battery power"). Measured in accordance with the JEITA (Japan

ustries Association) standard (using a Sony

Electronics and Information Technology

4) When using a Sony LR6 (SG) "STAMINA"

alkaline dry battery (produced in Japan)

specified, depending on the temperature of the

location, the operating conditions, and the type

The battery life may be shorter than that

Using house current

You can operate the player without a

rechargeable battery or a dry battery. To do

this, connect the battery charging stand to an

AC outlet through the AC power adaptor,

and then place the player on the stand.

 The battery indicator may show the battery to be fully charged even when it is not. Charging the battery shorter than the prescribed time will result in a shorter operating time on the A stronger or weaker battery charge may be

Battery life1

Ni-MH

rechargeable

LR6 (SG)

NH-14WM(A)3)

Sony Alkaline

NH-14WM(A)3)

LR6 (SG)4) and 96

MDW-series Mini-disc).

With a fully charged batter

of battery being used

dry battery4)

4 Slide the jog lever repeatedly to select one of the following settings: Display Setting

The backlight lights while the

Locking the controls (HOLD)

1 Slide HOLD on the remote control in the direction, and slide HOLD on the player in the \triangleright direction. Sliding HOLD on the remote control disables the controls on the remote control. Sliding HOLD on the player disables the controls on the player.

To unlock the controls Slide HOLD to the opposite directions of the

Preserving battery power (Power Save Mode)

This function allows you to maximize the operating life of the battery. Power consumption is reduced by turning off the "3-color info-LED" at all times, or by turning off the display when no operation has been made for a while. This procedure can be done by the remote

- **1** Press and hold DISPLAY for 2 seconds
- **2** Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.
- **3** Slide the jog lever repeatedly until and then press the jog lever.

▶ Additional information

Precautions

On safety Make sure to keep the player in the supplied carrying pouch. If the terminals on the player battery-charging stand, or battery case are metallic object, they may short-circuit and

begin to heat up.

• Keep the terminals on the player or on the battery case away from metallic objects or surfaces. Such contact may short-circuit the terminals and cause dangerous heat generation. When carrying the player with you, always keep the battery case attached to the player in the supplied carrying pouch.

When you carry the supplied rechargeable battery, be sure to put it in the supplied rechargeable battery carrying case. Carrying the rechargeable battery without the case may cause a short-circuit with metallic objects such as coins, key rings, or necklaces. As a result, heat may be generated.

• Do not put any foreign objects in the DC IN 3V jack. Do not carry or store the dry battery or battery

case in the same place with metallic objects such as coins, key rings, or necklaces. This may cause a short-circuit and the generation Incorrect battery usage may cause the battery fluid to leak or battery to burst. To prevent such accidents, observe the following

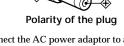
- Install battery with the + and - poles aligned correctly – Do not charge dry battery.

• If a battery leak should develop, carefully and thoroughly wipe away the battery fluid in the battery compartment before inserting a new If you will not use the player for a long time

be sure to disconnect the power supply (AC power adaptor, dry battery, rechargeable battery, or battery charging stand). When disconnecting the AC power adaptor from the electrical outlet, grasp the adaptor plug itself; never pull the cord.

On the AC power adaptor (for the supplied battery charging stand)

power adaptor. Do not use any other AC On the headphones/earphones power adaptor since it may cause the player to Road safety Do not use headphones/earphones while driving, cycling, or operating any motorize vehicle. This may lead to a traffic accident and \Diamond is illegal in many areas. It can also be



· Connect the AC power adaptor to an easily accessible AC outlet. Should you notice ar abnormality in the AC power adaptor, nect it from the AC outlet immediatel

On charging

 The supplied battery charging stand can be used only with the MZ-E710. It cannot be used to charge any other models. Do not use the supplied battery charging

stand to charge any other battery besides the Charge the rechargeable battery at a rature of +5°C (+41°F) to +40°C (+104°F). The charging time will vary

according to the surrou The battery charging stand and the battery may become hot during the charging procedure; this, however poses no danger

 Because of the battery's characteristics, the capacity of the battery may be smaller than normal when it is used for the first time or after a long period of disuse. In this case, charge and discharge the battery several times. The normal battery life will be

· If the capacity of the rechargeable battery drops to half the normal amount, replace it with a new one.

• As soon as the charging is complete, remove

from the electrical outlet. Leaving it

and disconnect the battery charging stand

Dust on the lens may prevent the unit from connected may result in reduced battery operating properly. Be sure to close the disc compartment lid after inserting or ejecting an To maintain good sound quality, use a soft cloth to clean the plugs of the headphones

On handling

Do not pull on the remote control or

Do not place the player in the following

— In a car with the windows rolled up

– În a damp place such as a bathroo

Heat may build up in the player when it is

charging or operated for a long time. This however, is not a malfunction.

The player emits mechanical noise while

operating, which is caused by the power

aving system of the player. This is not a

Never use the player where it will be subjected

to extremes of light, temperature, moisture or

Never wrap the player in anything when it is

The supplied remote control is designed for

use with the MZ-E710 only. Note also that

the player cannot be controlled by remote

being used with the AC power adaptor. Hea

build-up in the player may cause malfunction

as a magnet, speaker, or TV

— In a dusty place

On heat build-up

On mechanical noise

On the remote control

On the MiniDisc cartridge

internal disc.

· Do not touch the internal disc directly

Forcing the shutter open may damage the

When transporting a minidisc, keep it in its

subjected to light, temperature, moisture or

· Do not affix the label outside of the specified

within the recessed space on the disc

area on the MD. Make sure the label is placed

potentially dangerous to play your player at

high volumes while walking, especially at

reme caution or discontinue using the

supplied headphones/earphones, stop using

them at once and consult a doctor or a Sony

Avoid using headphones/earphones at high

ontinuous, loud and extended play. If you

experience a ringing in your ears, reduce the

Keep the volume at a moderate level. This

be considerate of the people around you.

will allow you to hear outside sounds and to

The supplied battery case is designed for use

After wiping the player casing with a soft

cloth slightly moistened with water, wipe it again with a dry cloth. Do not use any type of

abrasive pad, scouring powder or solvent such

as alcohol or benzene as this may mar the

finish on the casing.

• Wipe the disc cartridge with a dry cloth to

may cause noise or intermittent breaks in the

volumes. Hearing experts advise against

pedestrian crossings. You should exercise

player in potentially hazardous situations

If you experience an allergic reaction to the

Preventing hearing damage

volume or discor

Caring for others

On the battery case

with the MZ-E710 only.

On cleaning

• Do not place the cartridge where it will be

On installation

- An extremely hot place (over 60°C (140°F))

– A place exposed to direct sunlight or near a

Near a source of electromagnetic fields such

cause the player to malfunction

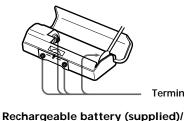
headphones/earphones cords.

(especially in the summer)

- Do not drop or bump the player. This may swab or a soft cloth as illustrated
 - Rechargeable battery compartment



Dry battery case



Dry battery (not supplied)

Battery charging stand

If you have any questions or problems concerning your player, please consult you nearest Sony dealer. (If a trouble occurred when the disc was in the player, we recommend that the disc be left in the playe when you consult your Sony dealer so that the cause of trouble may be better understood.)

Troubleshooting

The rechargeable battery does not start charging.The terminals of the battery charging

stand are dirty. → Wipe the terminals with a dry cloth.

• The rechargeable battery is not inserted → Insert the rechargeable battery into

the player. • The surrounding temperature is too high or too low ("CannotCHG" appears in the display when the surrounding temperature is too high, or "SLOW

CHG" when temperature is too low).

→ Charge the battery at a temperature of +5°C (+41°F) to +40°C (+104°F).

The "3-color info-LED" does not light up even when the player is placed on the battery charging stand.

in the player. ➤ Insert the rechargeable battery into

 The LED may not light on immediately after you placed the player on the battery charging stand → The LED will light up after about 3 minutes and charging will begin

The player does not work or works • The rechargeable battery or dry battery has been installed incorrectly

→ Install the battery with correct You tried to play with no disc in the player ("NO DISC" appears on the

→ Insert an MD. The hold function is activated and the

controls are locked. (If you press any of the operation buttons on the player. "HOLD" appears on the remote → Slide HOLD in the opposite

hold function.

direction of the arrow to release the

while making a setting on the remote control. ("MENU" appears on the remote control when a button on the player is pressed.)

→ End the setting procedure using the

• Moisture has condensed inside the

· You pressed on a button on the player

Take the MD out and wait for

several hours until the moisture has evaporated. • The rechargeable battery or dry battery is weak ("LOW BATT" appears on the

 Insert a new dry battery or recharge the battery.

• An MD with nothing recording on it is inserted ("BLANKDISC" appears on

• The player cannot read the disc. (it's

• While operating, the player received a

scratched or dirty) ("READ ERR" or "TOC ERR" appears on the remote Reinsert or replace the disc.

→ Insert a recorded MD.

mechanical shock, too much static. abnormal power voltage caused by

→ Restart the player as follows: 1 Disconnect the power source.

2 Let the player sit for about 3 Reconnect the power source

There is no sound output from the neadphones/earphones • The headphones/earphones plug is not firmly inserted.

Insert the headphones/earphone

plug firmly to the remote control ➤ Insert the headphones/earphones

plug firmly into the () jack. AVLS is on → Cancel the AVLS function. For more details, see "Protecting your

The MD does not play normally. The player is set to the repeat mode

→ Press and hold the P MODE/

 button on the remote control until "

¬" disappears, then start playing The MD does not play from the first

• The disc stopped playing before reaching the last track. → Open the lid or when the player

stops, press and hold the jog lever for 2 seconds or more to start playing from the first track. The playback sound skips

• The player is placed where it receives continuous vibration. Place the player at a stable place. · A very short track may cause sound to

The sound has a lot of static. • Strong magnetism from a television or other device causing interference → Move the player away from the

> Noise is momentarily heard. The sound was recorded in LP4 stereo

source of strong magnetism

→ Because of the nature of the compression method used in LP4 mode, noise may be output on very rare occasions during playback of sound recorded in this mode During playback, the "3-color info-LED"

or display on the remote control does not turn on. • Power save mode is activated Cancel power save mode

The group function does not function · A disc that has no group settings is Insert a disc with group settings.

Audio playing system MiniDisc digital audio system Laser diode properties

Wavelength: $\lambda = 790 \text{ nm}$ Laser output: less than 44.6 µW* This output is the value measured at a distance

Specifications

of 200 mm from the objective lens surface on he optical pick-up block with 7 mm aper Approx. 300 rpm to 2,700 rpm Error correction ACIRC (Advanced Cross Interleave Reed

Solomon Code) Sampling frequency 44.1 kHz

2 stereo channels

impedance 16 Ω

Power requirements

stand): Power rating 3V DC

Battery operation time

Supplied accessories

Battery charging stand (1)

Rechargeable battery (1)

Ontional accessories

Dry battery case (1)

Carrying pouch (1)

AC power adaptor

Outputs

ATRAC (Adaptive TRansform Acoustic Coding) ATRAC3: LP2/LP4 EFM (Eight to Fourteen Modulation

Headphones/earphones: stereo mini-iack

Maximum output level 5 mW + 5 mW load

One NH-14WM(A) (supplied): 1.2 V, 1,350 mAh

External power jack (for the battery charging

See "When to replace or recharge the battery

Approx. 66 g (2.3 oz) (the player only)

AC power adaptor (for the supplied battery charging stand) (1)

US and foreign patents licensed from Dolby

Rechargeable battery carrying case (1)

Approx. $71.5 \times 77.9 \times 13.9 \text{ mm (w/h/d) } (2^{7}/_{\circ} \times$

Nickel metal hydride rechargeable batter

One LR6 (size AA) battery (not supplied

l monaural channel Frequency response 20 to 20,000 Hz ± 3 dB

> VOLUME +. - buttons 12 Battery compartment

The display window of the remote control 3

 $3^{1/}_{8} \times {}^{9/}_{16}$ in.) (not including projecting parts and controls) Disc indication Headphones/earphones with a remote control

indications

Design and specifications are subject to change

AC-E30L (for use in Japan), AC-E30HG (for use outside Japan) NH-14WM Nickel metal hydride rechargeable MDR series stereo headphones/earphone

SRS series Active Speakers * On the stereo headphones/earphones · Whether you should plug the headphones earphones directly to the Q jack on the main unit or to a remote control, use only headphones/earphones with stereo min plugs. Headphones/earphones with a

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in

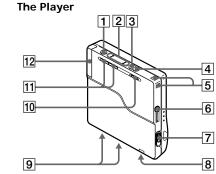
earphones cannot be used with the MZ-E710.

microplug cannot be used.

• Some models of noise cancelling headph

MDR-NC11, and MDR-NC5.)

Parts and controls



I**◄◀ • ▶II*** • ▶▶I butto "3-color info-LED"

GROUP button Hand strap hole Use the hole to attach your strap. (headphones/earphones) jac OPEN switch

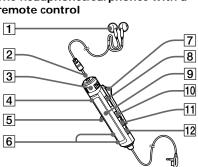
10 HOLD (Locking the control) switch

* ►II has a tactile dot.

4 5 6

Track number display Character information display Group play indication Play mode indication

Battery level indication Bookmark indication 9 Alarm indication



Terminals for charging stand (at the 9 Terminals for dry battery case (at the

Virtual-Surround/6-band equalize

The battery charging stand

DC IN 3V jack (at the bottom)

The headphones/earphones with a remote control

Headphones/earphones Stereo mini plug Volume control VOL +. Turn to adjust the volume

Jog lever (I◀◀ • ▶II / ENT • ▶▶I) button (Group) +, - button | Clip | HOLD switch Display window DISPLAY button P MODE / ← (play mode/repeat) button SOUND butt

http://www.sonv.net/

Starting playback quickly

1 Press and hold DISPLAY for 2 seconds

3 Slide the jog lever repeatedly until

Select "NORMAL" in step 4 above

recommended that you charge the battery daily

Changing the playback speed (Digital Pitch Control)

1 During playback, press and hold

"USEFUL" appears in the display, and

2 Slide the jog lever repeatedly until

then press the jog lever.

3 Slide the jog lever repeatedly until "DPC" appears in the display, and then press the jog lever. The player changes to speed-setting mode. Select the speed while listening

Remote control

To cancel the procedure ▶ Other operations (continued) Press and hold the DISPLAY button or the button for 2 seconds or more Once you open the lid, the playback speed

Joa lever (I◄◀ •►II/ENT•►►I