

aiwa

**OPERATING INSTRUCTIONS
INSTRUCCIONES DE MANEJO
MODE D'EMPLOI**

**COMPACT
disc
DIGITAL AUDIO**

XP-Z5

AEZ

**COMPACT DISC
PLAYER**

**REPRODUCTOR DE
DISCOS
COMPACTOS**

**LECTEUR DE DISQUE
COMPACT**

ENGLISH

ESPAÑOL

FRANÇAIS

8C-HP5-905-11
020401BMK-O-B

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WARNING:

TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE
THIS APPLIANCE TO RAIN OR
MOISTURE.

PRECAUTIONS

To maintain good performance

- DO NOT use the unit in places that are extremely hot, cold, dusty, or humid. In particular, DO NOT use or keep the unit in the following places:
 - In a high-humidity area such as a bathroom
 - Near a heater
 - In an area exposed to direct sunlight (e.g. inside a parked car, where it can become extremely hot)
 - Near sources of strong magnetism, such as televisions, speakers, or magnets
 - Where there is a lot of movement or vibration, such as on a car dashboard or an unstable shelf
- Before connecting the AC adaptor or the headphones, etc., be sure to confirm that the power is off.

For safety

- DO NOT attempt to disassemble the unit. Laser light from the optical pickup is dangerous to the eyes.
- Make sure that pins or other foreign objects do not get inside the unit.
- Take care not to drop the unit or subject it to strong shock.
- To keep dust off the pickup lens, keep the disc compartment lid closed after use. NEVER touch the lens.
- If you hear no sound when playing a disc, DO NOT turn the volume up high, because music could suddenly start at high volume. Turn the volume control to the lowest level before starting playback and slowly turn it up to the desired level.
- Use only the supplied AC adaptor.

Notes on listening with the headphones

- Listen at moderate volume levels to avoid hearing damage.
- DO NOT wear the headphones while driving or cycling. It may create a traffic hazard.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations, such as walking, jogging, etc.
- Wear them properly: L is left, R is right.
- The in-ear type headphones should be worn with the longer cord behind your neck.

CAUTION

Listening with headphones at high volume levels for an extended period of time can result in hearing damage.

Note on condensation

If the unit is suddenly moved from a cold place to a warm one, it may result in condensation on the pickup lens and malfunction or playback difficulties. Should this occur, leave the unit for a few hours, then try to playback again.

NOTES ON MP3 DISCS

- An MP3 file stores audio data compressed using MPEG1/2, the audio layer-3 file-coding scheme.
- In this manual, CDs, CD-R discs and CD-RW discs are all referred to as “discs.” We refer to what are called “folders” and “files” in PC terminology as “albums” and “tracks.”

Notes on playing MP3 files

- An MP3 track must be recorded on a disc in the format compliant with ISO 9660. Note, however, that the unit may not play tracks in the order in which they were recorded.
- The maximum allowable number of tracks and albums on a disc are as follows:
 - Number of tracks: 199 (depending on the number of albums)
 - Number of albums: up to 99 (depending on the number of tracks)
- The maximum allowable depth of nested albums is 8.
- **E•A•S•S PLUS** memory duration is approximately 400 seconds at the longest with tracks of 128-kbps bit rate.
- It may take 30 seconds or more before the unit can start play of a MP3 track, depending on the number of recorded tracks and the complexity of the album tree.
- If a disc contains audio (CD-DA) tracks and MP3 tracks, the unit plays only the audio tracks.
- The unit may not play MP3 tracks recorded using a packet writing utility.
- The unit can play MP3 tracks having the filename extension “.mp3.”
- If you play a non-MP3 track that has the “.mp3” filename extension, you may hear some noise.
- This unit can play back MP3 tracks of the following bit rates and sampling frequencies:
 - MPEG1: 32–320 kbps,
32 kHz, 44.1 kHz, 48 kHz
 - MPEG2: 16–160 kbps,
16 kHz, 22.05 kHz, 24 kHz
- This unit is best-suited for playback of tracks with a bit rate of 128 kbps. The sound may be intermittent or distorted during playback of tracks encoded with a certain encoder or encoded with bit rate over 128 kbps.
- The elapsed playing time may not be displayed correctly when variable-bit-rate (VBR) files are played.

- Sound is muted for a moment with a disc that contains no silent portion between songs (tracks), such as a disc with a recording of a live performance, etc.
- When files encoded with the MP3 Pro format are played back, their sound quality may not be as high as they should be.

Note on display indications during play

This unit does not support ID3 TAG, and the information such as album names and track names cannot be displayed.

Notes on creating MP3 discs

When converting audio data to MP3

To enjoy high sound quality, we recommend storing MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.

To play tracks in the order they were recorded

1 Use writing software capable of recording MP3 tracks (files) in numerical and alphabetical order.

For details on using the software, refer to the operating instructions supplied with the software.

2 Use only one album. (Do not create a subalbum within an album.)

3 Include a two- or three-digit number at the beginning of each album or track name so that the albums and tracks will be played in order.

Examples of recommended names:

01XXXXX.mp3
02XXXXX.mp3
03XXXXX.mp3
04XXXXX.mp3
05XXXXX.mp3

Examples of names not recommended:

1XXXXX.mp3
5XXXXX.mp3
10XXXXX.mp3
15XXXXX.mp3
20XXXXX.mp3

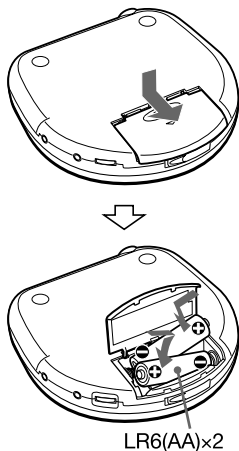
(Numbers at the beginning have different digit number. The tracks will not be played in this order but played in the order of "1," "10," "15," "20," and "5.")

POWER SOURCES


To power this unit, you can use dry-cell batteries, or the supplied AC adaptor.

Dry-cell batteries

Open the battery compartment and insert two **LR6 (size AA) alkaline batteries** with the **+** and **-** marks correctly aligned.



Battery replacement

Replace the batteries when  appears on the display.

Battery life (using alkaline batteries LR6)

Audio disc playback

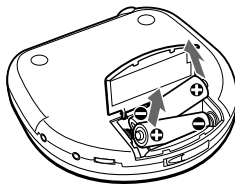
E•A•S•S PLUS function on	Approx. 8 hours
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E•A•S•S PLUS function off	Approx. 8 hours
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MP3 disc playback	Approx. 12 hours
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Battery life may vary depending on conditions of use.

To remove the batteries

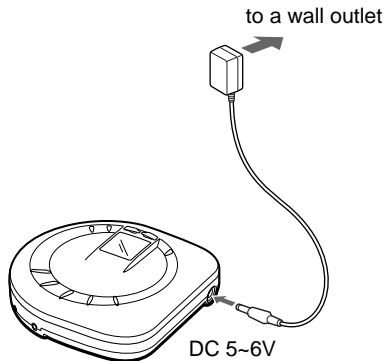


Notes on dry-cell batteries

- Make sure that the \oplus and \ominus marks are correctly aligned.
- DO NOT mix different types of batteries, or only one old battery with a new one.
- To prevent the risk of electrolyte leakage or explosions, NEVER recharge the batteries, apply heat to them, or take them apart.
- When not using the batteries, remove them to prevent needless battery drain.
- If liquid leaks from the batteries, wipe thoroughly to remove.

AC adaptor

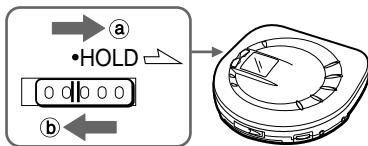
Connect the supplied AC adaptor to the DC 5~6V jack of the unit and to an AC outlet.



BEFORE PLAYBACK

Hold function

The Hold function locks the buttons on the unit to prevent them from accidentally being activated.



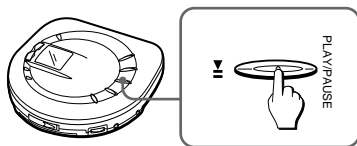
To enable the Hold function

Slide the HOLD switch to the HOLD position (→ a).

To cancel the Hold function

Release the HOLD switch (→ b).
Be sure to cancel the Hold function before starting playback.

Turning the power on

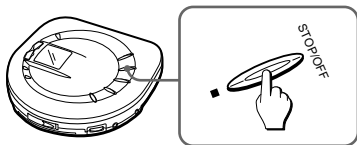


Press ►||PLAY/PAUSE. Power is turned on, and playback starts.

Notes

- If the Hold function is on, "Hold" appears on the display. Cancel the Hold function and press ►||PLAY/PAUSE again.
- When you press ►||PLAY/PAUSE with no disc inside the unit, "no dISC" appears on the display.
- When a disc is placed upside-down or a defective disc is inserted, playback does not start even if you press ►||PLAY/PAUSE.

Turning the power off



Standby mode/Auto Power-Off function

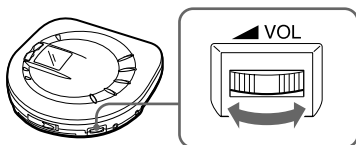
When playback finishes or ■ STOP/OFF is pressed to stop playback, the unit goes to Standby mode.

If no operation is performed within 60 seconds in Standby mode, the power is turned off automatically (Auto Power-Off function).

To turn the power off manually

Press ■ STOP/OFF in Standby mode.

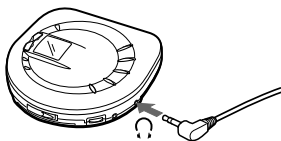
Adjusting the volume



Turn the VOL control to adjust the volume. The volume increases by turning it to the right.

Connecting the headphones

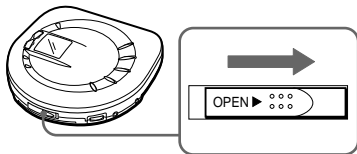
Connect the supplied headphones to the Ω jack of the unit.



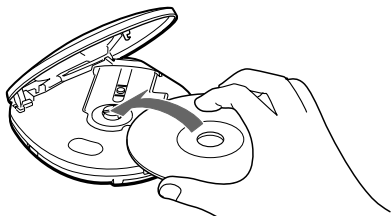
BEFORE PLAYBACK

Inserting a disc

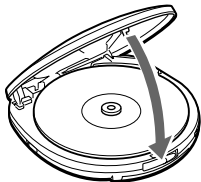
- 1 Slide the **OPEN** switch to open the disc compartment.



- 2 Place a disc in the center with the label side facing up.

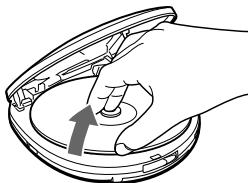


- 3 Close the disc compartment.



To remove the disc

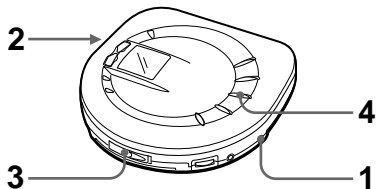
Pick up the disc, holding its edge, while holding the pivot gently pressed.



Notes on discs

- The unit may not play CD-R/RW discs recorded on some kinds of personal computers or CD-R/RW recorders because of differences in recording platforms.
- DO NOT attach stickers or other adhesive objects on either side of the disc.
- DO NOT leave or store the disc in an area exposed to direct sunlight or high humidity.
- To remove dust or dry particles, see "Maintenance" on page 21.

PLAYBACK



- 1 Connect the supplied headphones to the jack.
- 2 Release the HOLD switch.
- 3 Load a disc.
- 4 Press **PLAY/PAUSE**.



Audio disc



- a Track number
- b Elapsed playing time

"rEAd" appears on the display. It may take a few seconds to read the disc, then playback starts from the first track.

For about 40 seconds **E.A.S.S** flashes on the display while the unit is storing the playback sound in the memory buffer.

MP3 disc

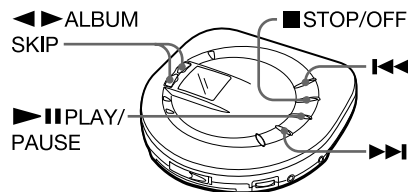


- a MP3 disc indicator
- b Album number
- c Track number
- d Elapsed playing time

"rEAd" appears on the display. After the disc is read, **MP3** appears on the display, and playback starts from the first track of Album 1.

PLAYBACK

Basic operation



To stop	Press ■ STOP/OFF.
To pause	Press ▶▶ PLAY/PAUSE. To resume, press the button again.
To search for the beginning of a track	Press ◀◀ or ▶▶.
To locate a desired passage	Hold ◀◀ or ▶▶ pressed. Release the button at the desired passage.
To change albums (MP3 disc only)	Press ▶▶ ALBUM SKIP to skip to the first track of the next album. Press ◀◀ ALBUM SKIP to skip to the first track of the previous album.

Notes on audio disc playback

- During pause, the track number and elapsed playing time flash on the display.

- If you press ■ STOP/OFF to stop playback and do not perform any operation within 60 seconds in Standby mode, the Auto Power-Off function turns the power off. If you press ▶▶ PLAY/PAUSE in Standby mode, playback restarts from the first track (not from the point where you stopped playback).

Notes on MP3 disc playback

- The time necessary to read an MP3 disc depends on the number of recorded tracks and the complexity of the album tree.
- For MP3 disc playback, the E•A•S•S PLUS function is automatically turned on, and cannot be canceled (see "E•A•S•S PLUS function" on page 13).
- During pause, the album number, track number and elapsed playing time flash on the display.
- During MP3 disc playback, you cannot monitor the sound while holding ◀◀ or ▶▶ pressed.
- If you press ■ STOP/OFF to stop MP3 disc playback and do not perform any operation within 60 seconds in Standby mode, the Auto Power-Off function turns the power off. If you press ▶▶ PLAY/PAUSE in Standby mode, playback restarts from the beginning of the track where you stopped playback.

OTHER PLAYBACK FUNCTIONS

E•A•S•S PLUS (Electronic Anti-Shock System) function

The E•A•S•S PLUS function reduces skipping or muting of the sound when the unit is subjected to shocks.



Each time you press E•A•S•S, the E•A•S•S PLUS function turns on and off. When the E•A•S•S PLUS function is on, **E•A•S•S** appears on the display.

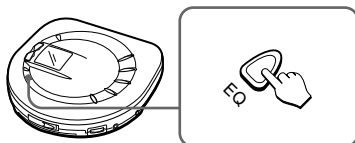
- For about 40 seconds **E•A•S•S** flashes on the display while the unit is storing the playback sound in the memory buffer.
- For MP3 disc playback, the E•A•S•S PLUS function is automatically turned on and cannot be canceled.

Notes

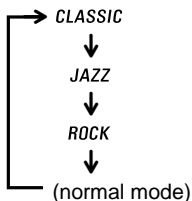
- Continuous shock or vibration may cause the sound to be interrupted even if the E•A•S•S PLUS function is on. This is normal and not a malfunction. Should you experience an interruption in the sound, stabilize the unit for a few seconds, then restart playback.

- When E•A•S•S is pressed during playback, the unit will pause for about 2 seconds.
- Before jogging with this unit, allow sufficient time for the memory buffer to fill up completely (ideally about 20 seconds).

Sound equalizer



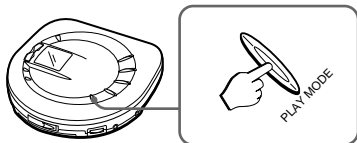
Press EQ to select the equalizer mode. Each time you press the button, the mode changes as follows.



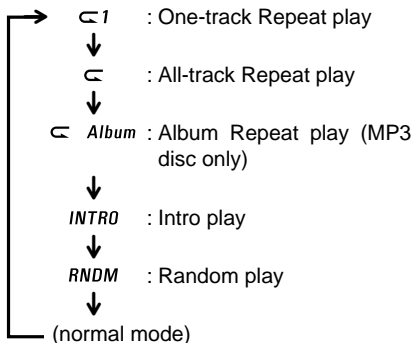
OTHER PLAYBACK FUNCTIONS

Selecting a playback mode

Beside normal playback, you can enjoy other playback modes.



Each time you press PLAY MODE, the mode changes as follows.



One-track Repeat play

Audio disc



MP3 disc



<1 appears on the display.
The current track is played back repeatedly.

All-track Repeat play

Audio disc



MP3 disc



< appears on the display.
All tracks on the disc are played back repeatedly.

Album Repeat play (MP3 disc only)



⏮ *Album* appears on the display.
All tracks on the current album are played back repeatedly.

Intro play

Audio disc



MP3 disc



INTRO appears on the display.
The first 10 seconds of all tracks on the disc are played back.

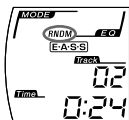
Note

If you press PLAY MODE to select Intro play during playback or pause, *INTRO* flashes on the display until the current track finishes playback. Then *INTRO* lights on the display, and Intro play starts from the next track.
If you press PLAY MODE to select Intro play in Standby mode, Intro play starts immediately if you press ►|| PLAY/PAUSE.

OTHER PLAYBACK FUNCTIONS

Random Play

Audio disc



MP3 disc



RNDM appears on the display.

All tracks on the disc are played back in random order.

Notes

- You cannot go back to the previous track by pressing **◀◀** during Random play.
- If you press **PLAY MODE** to select Random play during playback or pause, *RNDM* flashes on the display until the current track finishes playback. Then *RNDM* lights on the display, and Random play starts from the next track.

If you press **PLAY MODE** to select Random play in Standby mode, Random play starts immediately if you press **▶▶** **PLAY/PAUSE**.

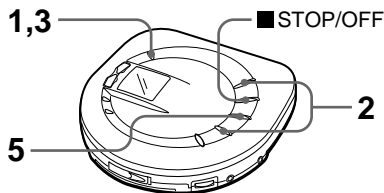
Program play

You can select your desired tracks to play in any order.

To set and start Program play for audio discs, see “Program play–Audio disc” below. To set and start Program play for MP3 discs, see “Program play–MP3 disc” on page 18.

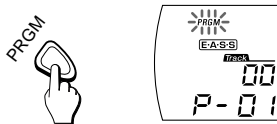
Program play–Audio disc

Up to 24 tracks can be programmed and played back.



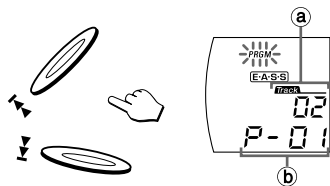
1 Press **PRGM** in Standby mode.

(To enter Standby mode, press **■ STOP/OFF** during playback or pause.)



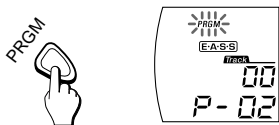
PRGM flashes on the display.

2 Press ◀◀ or ▶▶ to select a desired track.



- a Track number
- b Program number

3 Press PRGM.



4 Repeat steps 2 and 3 to program more tracks.

If you want to change a track that has been programmed, press PRGM repeatedly to display the program number for that track, then perform steps 2 and 3.

5 Press ▶||PLAY/PAUSE to start Program play.



PRGM lights on the display.

To cancel Program play

Hold PRGM pressed in Standby mode until *PRGM* disappears from the display.

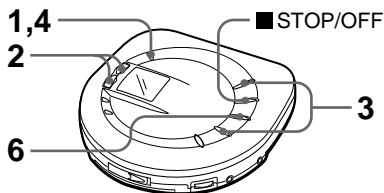
Notes

- The program is also canceled when the power is turned off or the disc compartment is opened.
- The program setting is performed in Standby mode, so if you do not press any button within 60 seconds, the Auto Power-Off function turns the power off, and the program is canceled.
- When 24 tracks have been programmed, the unit automatically exits from the program setting. Press ▶||PLAY/PAUSE to start Program play within 60 seconds, or the Auto Power-Off function will turn the power off.
- Repeat play and Intro play can be performed during Program play.
- Random play cannot be performed during Program play. Cancel Random play by pressing PLAY MODE before you start Program play.

OTHER PLAYBACK FUNCTIONS

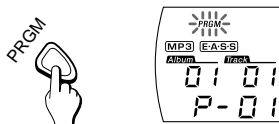
Program play–MP3 disc

Up to 50 tracks can be programmed and played back.



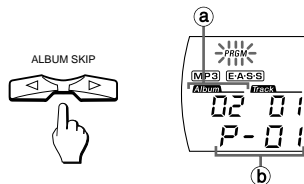
1 Press **PRGM** in Standby mode.

(To enter Standby mode, press ■ STOP/OFF during playback or pause.)



PRGM flashes on the display.

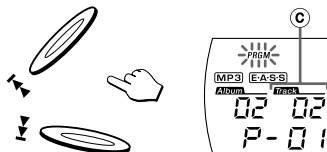
2 Press ◀ **ALBUM SKIP** or ▶ **ALBUM SKIP** to select a desired album.



a Album number

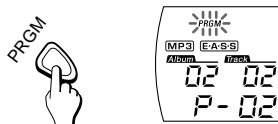
b Program number

3 Press ◀◀ or ▶▶ to select a desired track.



c Track number

4 Press **PRGM**.



Tips

All tracks on the selected album are programmed, if you press PRGM after selecting the album by pressing ◀▶ ALBUM SKIP.

- 5 Repeat steps 2, 3, and 4 to program more tracks.
- 6 Press ►IIPLAY/PAUSE to start Program play.



PRGM lights on the display.

To cancel Program play

Hold PRGM pressed in Standby mode until PRGM disappears from the display.

Notes

- The program is also canceled when the power is turned off or the disc compartment is opened.
- The program setting is performed in Standby mode, so if you do not press any button within 60 seconds, the Auto Power-Off function turns the power off, and the program is canceled.
- If you do not press any button within 30 seconds, the unit exits from the program setting, and the program is canceled. In this case, start program setting again from step 1.
- When 50 tracks have been programmed, the unit automatically exits from the program setting. Press ►IIPLAY/PAUSE to start Program play within 60 seconds, or the Auto Power-Off function will turn the power off.
- Repeat play and Intro play can be performed during Program play.
- Random play cannot be performed during Program play. Cancel Random play by pressing PLAY MODE before you start Program play.

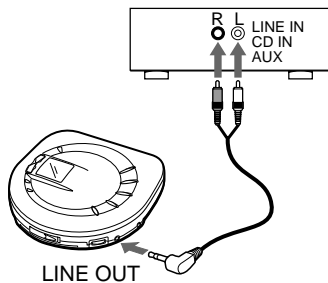
CONNECTING TO AN EXTERNAL UNIT

Use a commercially available connection cord which has a stereo miniplug (3.5-mm in diameter) at one end and two phono plugs at the other end.

Connect the stereo miniplug to the LINE OUT jack of the unit and connect the phono plugs to the LINE IN jack of the external unit.

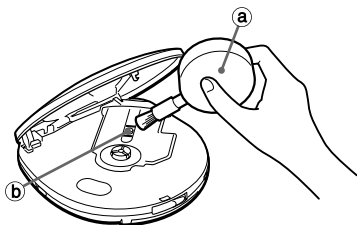
Notes

- Turn off the power of both units before connection.
- DO NOT connect the phono plugs of the cord to the PHONO inputs of an amplifier (with a built-in phono equalizer-amplifier).
- Adjust the equalizer (EQ) on this unit.



MAINTENANCE

Cleaning the lens



If the lens becomes dirty, the sound may skip or may not be heard. If this occurs, clean the lens in the following manner.

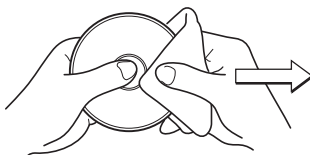
To remove dust or dry particles, first use a camera-lens blower/brush (Ⓐ) to blow a few times to loosen particles, then gently brush the lens (Ⓑ) to clean. Finish by blowing on the lens again.

To remove fingerprints, use a cotton swab dipped in lens cleaning solution. Wipe gently from the center to the edge. Lens cleaning solution is commercially available.

Notes

- Take care not to get too much solution on the swab, which could flow into the unit and cause damage.
- Pressing too strongly with the swab could scratch or break the lens.

Cleaning a disc



Before playing, wipe the disc from the center outward with a cleaning cloth. After playing, store the disc in its case.

TERMINOLOGY

ISO 9660

ISO stands for the “International Organization for Standardization.” ISO 9660 determines the file structure for CD-ROMs. This unit can play MP3 files recorded in formats compliant with ISO 9660.

Nesting of folders (albums)

To organize data files stored on a PC, you can store related files in a folder. A folder can contain other folders as well as files. For example, folder A can contain folder B, and folder B can contain folder C. This is called “nesting” of folders. The maximum depth of nesting allowed under ISO 9660 is 8.

Filename extension

A 3-character string added to a filename under a Windows or DOS environment is called a “filename extension.” A filename extension is used mainly to identify types of files. The filename extension for MP3 files is “.mp3.”

Writing utilities

There are 3 utilities used to record data on a disc.

1 DAO (Disc At Once) utility

All data to be written must be prepared in advance and written to a disc from the beginning to the end in one operation. No data can be added to a disc on which data were already written with the DAO utility.

2 TAO (Track At Once) utility

Data are written to a disc track by track. Data can be added to a disc on which data were written with the TAO utility.

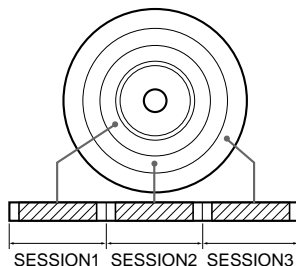
3 Packet-writing utility

Tracks are divided into smaller pieces while being recorded, depending on the size of available spaces on a disc. Data can be added to a disc on which data were written with packet-writing utility.

This unit can play MP3 discs recorded using DAO and TAO utilities.

Multiple sessions

A session is a collection of data, covering from the beginning to the end of recording made in one operation. With the TAO (Track At Once) utility, data can be recorded with several operations. A session corresponds to the data recorded in one operation.



SPECIFICATIONS

Tracking system	3-beam laser
Laser pickup	Semiconductor laser
D/A conversion	16 bit DAC
Frequency response	20–20,000 Hz (47 k Ω)
Output	ϕ jack (stereo minijack) LINE OUT jack (stereo minijack)
Maximum output (Headphone jack)	5 mW + 5 mW (16 Ω at 1 kHz)
Line output	600 mV + 600 mV (47 k Ω at 1 kHz)
Power supply	DC 3 V using two LR6 (size AA) alkaline batteries AC house current using the supplied AC adaptor
Maximum outside dimensions (W \times H \times D)	129 \times 30 \times 131 mm (excluding projecting parts and controls)

Weight	Approx. 243 g (excluding batteries)
Accessories	AC adaptor AC-A62E (1) Stereo headphones (1)

AC Adaptor AC-A62E

Rated input AC 230 V, 50 Hz

Supplied headphones HP-M070

Type: In-ear type
 Impedance: 16 Ω
 Sensitivity: 95 dB/mW

Recommended commercially available headphones

Type: In-ear type/
 Vertical type/
 Headband type
 Impedance: 16–32 Ω
 Sensitivity: 90–105 dB/mW

The specifications and external appearance of this unit are subject to change without notice.

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