KENWOOD

MGR-E8

DIGITAL AUDIO RECORDER

INSTRUCTION MANUAL

Kenwood Corporation

CE

Declaration of Conformity with regard to the EMC Directive 2004/108/EC

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Safety precautions

IMPORTANT SAFETY INSTRUCTIONS

⚠ Caution:

Read this page carefully to ensure safe operation.

Read Instructions – All the safety and operating instructions should be read before the product is operated.
Retain Instructions – The safety and operating instructions should be retained for future reference.
Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
Follow Instructions – All operating and use instructions should be followed.

WARNING :

- **Do not use headphones during riding/driving a vehicle or walking.**
  Otherwise, a traffic accident may result. Never use headphones when you ride a bicycle or driving an automobile or motorbike. If this unit is used during walking, the ambient sounds will be cut and you may have difficulties in hearing various warning sounds.
- **Do not operate this unit during riding or driving a vehicle.**
  Do not operate this unit when you drive or ride an automobile, motorbike or bicycle. Otherwise, a traffic accident may result. Be sure to stop the vehicle in a safe place before operating this unit.
- **Do not stare at the display screen during riding or driving a vehicle.**
  Otherwise, a traffic accident may result.
- **Always use the designated AC adapter.**
  Otherwise, a fire or electric shock may result.
- **Always plug the power plug of the AC adapter into an outlet supplying the specified voltage.**
  Otherwise, a fire or electric shock may result.

Precautions :

- Do not insert or drop a metallic object or an easily flammable object inside this unit through an opening. Otherwise, a fire hazard or battery leak may result.
- When connecting ancillary equipment to this unit, read the instruction for the equipment, switch this unit off and connect the equipment as instructed. Also be sure to use the specified cord for the connection. Inappropriate connection, use of a non-specified cord or extension of the cord may cause heat generation and a burn or other injuries.

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Do not use or place the product in the following locations:

- A place with high humidity, such as in a bathroom or shower room. Also do not use this unit in a place subject to water splashes. Otherwise, a fire hazard or battery leak may result.
- Do not approach this unit to heating equipment (a stove, iron, etc.). Otherwise, a fire hazard or battery leak may result.
- Do not place this unit in a place subject to soot or vapor, for example in a kitchen or near an air humidifier, or in a place subject to excessive humidity or dust. Otherwise, a fire hazard or battery leak may result.
- Do not leave this unit in a place where the temperature may rise abnormally high, for example in a closed automobile or under direct sunlight. Otherwise, this unit or its parts may deteriorate or a fire hazard or battery leak may result.

Notes on using through headphones:

- Do not start listening with too high a volume. Otherwise, sudden output of a high-volume sound may cause hearing failure, etc.
- Do not listen to the audio with an extremely high volume for long hours. Otherwise, your hearing ability may be damaged.
- Do not use headphones if an abnormality is felt on the skin. Otherwise, skin inflammations may result. Should any abnormality be felt on the skin or ears during use of headphones, immediately stop using them and see a doctor.
- A person with an ear disease is discommended to use headphones. Otherwise, the disease may worsen. Should any abnormality be felt on the skin or ears during use of headphones, immediately stop using them and see a doctor.
- Attach and detach headphones around the ears gently and slowly. Violent attaching or detaching may injure the ear.

Notes on using through car stereo :

- Do not leave the products or batteries in the car, particularly above the dashboard, for this may lead to malfunction or damage due to solar heat.
- If the unit is connected to a car stereo using an audio cord, noise may sometimes interfere.

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Handling

- Do not apply an excessive force to the display part. Otherwise, it may be damaged.
- Avoid storing this unit in a bag together with a hard object. Otherwise, this unit may be damaged when the bag is pushed.
- Do not expose this unit to an insecticide or other volatile substance or bring this unit in extended contact with a rubber or vinyl material. Otherwise, discoloration or peeling of the surface finish may result.
- Do not put this unit in a pocket of trousers. Otherwise, it may be damaged due to a strong impact when you sit down, etc.
- **Protect this unit against sweat and moisture.**
  Do not use this unit by putting it in a breast pocket for long hours in the summer or during exercise. Otherwise, penetration of moisture or sweat may cause malfunction or failure.

Operating conditions

Temperature: 5 to 35°C. (without condensation)

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.
Be specially cautious against condensation in the following circumstances:
When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Maintenance of the unit

When the front panel or case becomes dirty, wipe with a soft, dry cloth.
Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regard to contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

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Note on the built-in battery

- The battery built into this unit discharges spontaneously even when this unit is not used. This means that the built-in battery may be exhausted completely when this unit is left unused for a long period. If this happens, recharge the battery before using this unit.
- The battery recharging time is variable depending on the condition of the battery and ambient temperature.
- The available playback time reduces when this unit is used under low temperatures.
- The built-in battery can be recharged for about 400 times. (This is a reference value and is not guaranteed.)
- The built-in battery is a consumable part, and the available playback time reduces gradually after repeated use. If the available playback time becomes very short even after the battery has been recharged fully, the battery may be degraded; replace it with new one.
- Kenwood will not assume any liabilities for the alteration or loss of data caused due to complete discharging of the built-in battery.
- The built-in battery is a lithium ion battery.
  It is free from the memory effect of Ni-Cd and nickel-hydrogen batteries, with which the capacity decreases if the battery is charged or discharged incompletely for several times. The built-in battery therefore accepts additional charging before it has exhausted completely.

WARNING

- **For the replacement of the built-in battery, contact your dealer.**
  Danger of Explosion if the battery is incorrectly replaced.
- **Do not heat excessively the built-in battery, open it, modify it or throw it in fire or water.**
  Excessive heat generation, explosion or fire ignition may cause a fire.
- **Do not leave the built-in battery near fire or under direct sunlight.**
  A fire, explosion or excessive heat generation may result.
- **Attach insulating tape on the connectors of the built-in battery.**
  A fire or explosion may result if the battery electrodes are short-circuited.
- **Do not leave the built-in battery within the reach of children.**
  Injury or other accidents may result.
- **If the built-in battery fluid leaks and enters your eyes, immediately rinse your eyes with fresh water and call a doctor.**
  If the fluid is left in your eyes, an eye injury may result.

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Storage and maintenance of SD card

Before storage

- Be sure to put the SD card in the case before storing it.
- Do not leave the SD card in a place with extremely high temperature (under direct sunlight, etc.) or extremely high humidity.

When the SD card gets dirty

- Wipe lightly with a soft cloth, etc.
- Do not use lacquer thinner, benzine or alcohol.

Other cautions

- Do not open or modify the SD card.
- Do not peel off the label from the SD card.
- Do not attach a label or sticker on the SD card.
- Do not touch the metallic terminals on the backside with a finger or metallic object.

Note on disposal/transfer of SD card

The "Format" and "Delete" functions of this unit or a PC simply change the file management information and do not erase the data in the SD card completely. Before disposing of or transferring the SD card, it is recommended to destroy it physically or erase the internal data completely using commercially available PC data erasing software.
It is the user's responsibility to manage the data in the SD card properly.

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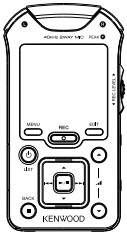
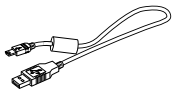
Unpacking



Recorder



USB cable

Ear tip
(L size, S size)

Wind-screen

Headphones
(Ear tip: M size)

Instruction manual

⚠CAUTION
Excessive sound pressure from earphones or headphones can cause hearing loss.

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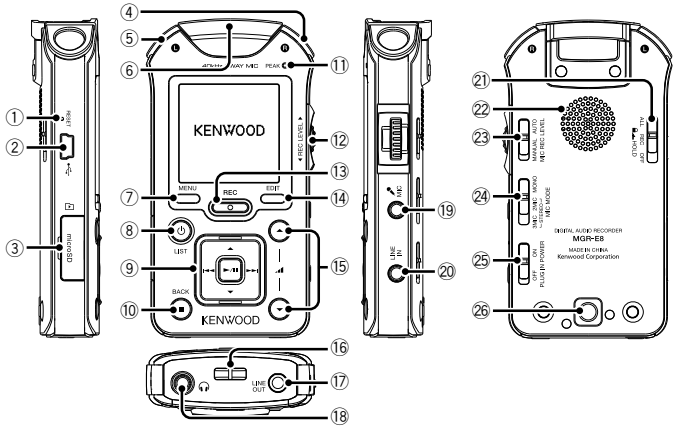
Names and functions of parts

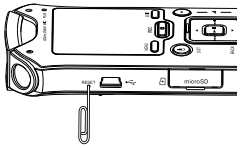


① Reset button

- If all of the buttons of this unit are defeated while [㉑ HOLD] is set to OFF, press the RESET button to reset and switch off this unit. Press the RESET button with the tip of a clip.

CAUTION

When this unit is reset, its settings return to those of the last time it was switched on. The settings made since then are cleared.



② USB jack

- Connect to a PC using the provided USB cable to transfer music files or recharge the battery.

③ microSD card slot

- Insert a microSD card. (page 23)

④ Right microphone

⑤ Left microphone

⑥ Center microphone

⑦ Menu button

- Press shortly to open the menu. Pressing the button again closes the menu.

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⑧ **⏻/LIST Power/ List button**

- Press and hold to switch the power ON/OFF.
- Press shortly during stop or play mode to open the list screen at the highest level of hierarchy.
- Press shortly while a list is displayed to return to the display during playback.

⑨ **Select/ Play button**

▲ Up button

- Press while the menu or list is displayed to move the cursor upward.
- Press during stop or play mode to open the list screen.

▼ Down button

- Press while the menu or list is displayed to move the cursor downward.

⏮ Left button

- Press during playback to skip to the beginning of the current track. Pressing the button at the beginning of a track skips to the beginning of the previous track.
- Press and hold to fast reverse the music.

⏭ Right button

- Press while the menu or list is displayed to enter an item and go to the next item.
- Press during playback to skip to the beginning of the next track.
- Press and hold to fast forward the music.

⏵/⏸ Play/ Pause button

- Press to play a track or let it pause.
- Press while the menu or list is displayed to enter a selected item.

⑩ **■/BACK Stop/ Back button**

- Press during playback to stop it.
- Press during stop mode to switch the displayed information.
- Press during recording to stop it.
- Press shortly while the menu or list is open to return to the previous display page.

⑪ **PEAK indicator**

⑫ **REC LEVEL knob**

- During recording to adjust the recording level. (The adjustment is possible when [㉓ MIC REC LEVEL] is set to MANUAL.)

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⑬ REC button

- Press to enter recording standby mode. Press again to start recording.
- Press during recording to enter recording pause mode. Press again to resume recording.
- Rec indicated by the indicator

Steady lighting	Recording mode
Blink	Recording standby or Recording pause mode
Extinguished	Stop mode

⑭ EDIT button

- Press during stop mode or while the list is displayed to open the file edit screen.
- Press during playback to add/delete favorite tracks or set A-B repeat.
- Press during recording standby to set the AUTO recording level adjustment.
- Press during recording to divide the recorded file at the point where the button is pressed.

⑮ Volume button

- Press to increase (▲) or decrease (▼) the volume. Pressing and holding a button segment varies the volume gradually.

⑯ Strap eyelet

- Pass the strap through this hole.

CAUTION

- Do not pass a metallic hook or like (a key holder, etc.) through the strap eyelet. Otherwise, this unit may be damaged.
- Do not swing around the unit by holding the strap. If the unit hits a person, an injury, malfunction or damage may result.

⑰ LINE OUT Line output

⑱ Phones jack

⑲ MIC Microphone input

⑳ LINE IN Line input

㉑ HOLD switch

- ALL : Press to defeat all other buttons. This helps prevent erroneous operation of this unit when it is carried in a bag, etc.
- REC : Press to defeat only the REC button. This prevents unintended recording mistake during playback of music, etc.

㉒ Speaker

- When nothing is connected to [⑰ LINE OUT] terminal and [⑱ Phones jack], the speaker output the audio of the track being played.
- The speaker does not output any audio during recording.

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㉓ **MIC REC LEVEL Microphone recording level switch**

- When the built-in microphones or an external microphone is used, set the recording level adjustment method to either MANUAL or AUTO.

㉔ **MIC MODE Microphone mode switch**

- When the built-in microphones are used, set the microphone mode to Monaural, 2-Microphone or 3-Microphone.

㉕ **PLUG IN POWER Plug-in power switch**

- Set ON when using an external microphone with the plug-in power type.

㉖ **Tripod mount hole**

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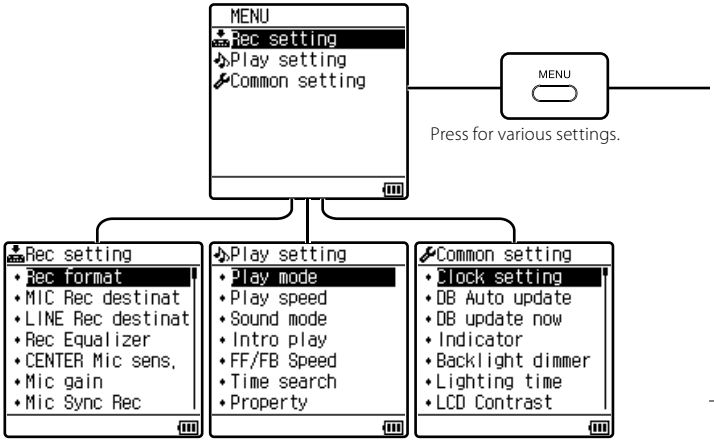
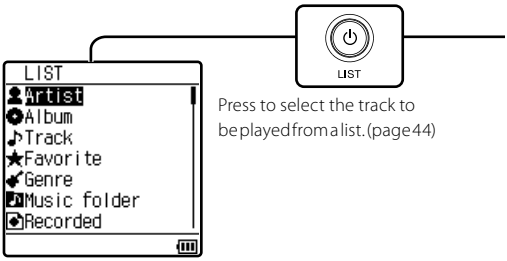
Screen display items



Record settings menu (page 35)

Playback settings menu (page 46)

Common settings menu (page 60)



List screen (page 44)

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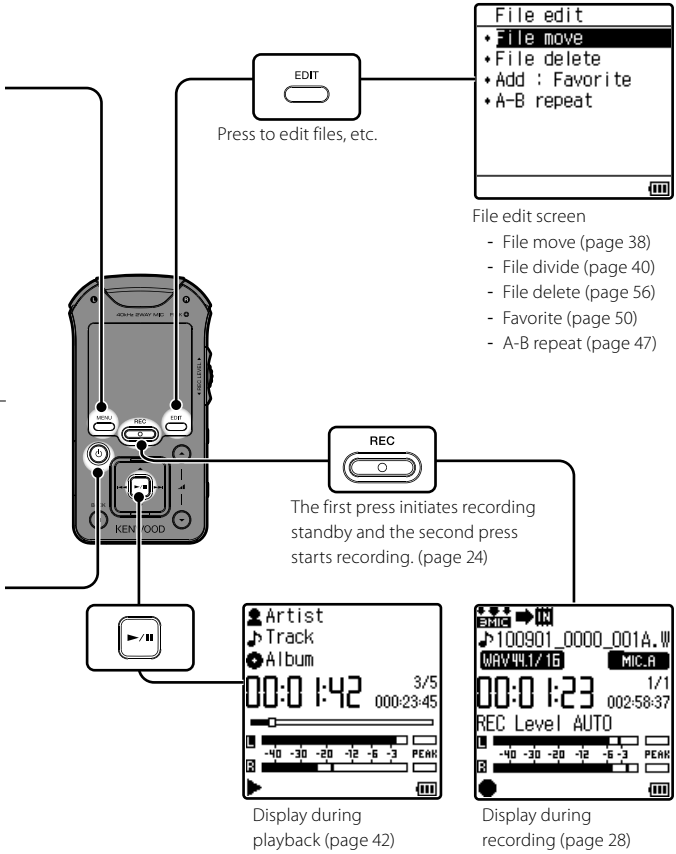

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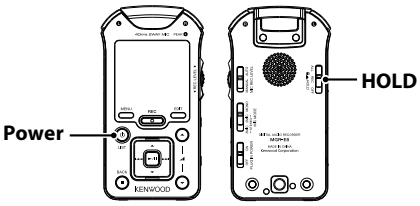
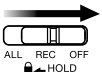
About the power supply



Switch this unit ON

1 Cancel the HOLD function

Slide [HOLD] to the "OFF" position.



2 Switch this unit ON

Press [Power] until the KENWOOD logo is displayed.

Switch this unit OFF

1 Switch this unit OFF

Press and hold [Power] until the display is turned off.

- This unit switches OFF automatically after it has been left in stop mode for a certain period of time (Auto Power-OFF). The time until Auto Power-OFF occurs can be changed (page 60).

Remaining battery power indication

The icon on the bottom right of the display indicates the battery power status.

→ →	Shows the remaining power of the battery.
	The battery is nearly exhausted. Recharge the battery.
	Battery cannot be recharged. The battery should be recharged within the operating temperature range. (page 76)

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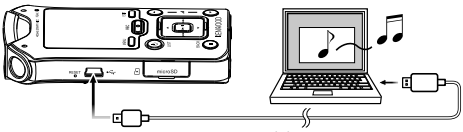
Recharging from a PC connected with USB connection

This unit incorporates a rechargeable battery (hereafter "the battery"), which can be charged from a PC connected through a USB cable.

1 Start up the PC

2 Connect a USB cable to the USB port of the PC

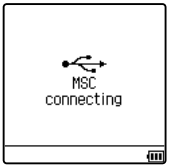
3 Connect the USB cable to the USB jack of this unit



USB cable

The battery will be recharged fully in about 2.5 hours.

The battery icon is animated during recharging. When recharging completes (about 4 hours), the icon stops in the "▮▮▮" condition.



4 Disconnecting this unit from the PC (page 67)

- For the PC system requirements, see <Specifications> (page 76).
- This unit is switched ON automatically at the moment it is connected to the PC.
- When the USB connection, always use a supplied USB cable.
- This unit should be connected directly to the USB port of the PC. We cannot guarantee the operation if this unit is connected via a USB hub.
- Recharging is not possible during data transfer with the PC. If software that loads files permanently from this unit is running, exit it before recharging.

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Operation while supplying external power

For long hours of recording or playback, the power can be supplied externally from the USB port of a PC.

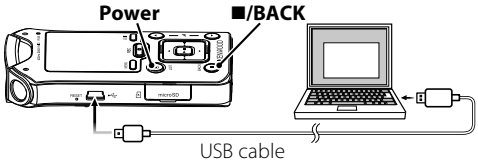
1 Start up the PC

2 Connect a USB cable to the USB port of the PC

3 Switch this unit OFF

Press and hold [Power] until the display is turned off.

4 While holding [■/BACK], connect the USB cable to the USB jack of this unit



■ To finish operation

5 Switch this unit OFF

6 Disconnect the USB cable from this unit

- The following operations are unavailable during operation using the external power supply.
  - Battery status indication
  - Battery recharging
  - Control from PC
- When the USB connection, always use a supplied USB cable.
- This unit should be connected directly to the USB port of the PC. We cannot guarantee the operation if this unit is connected via a USB hub.

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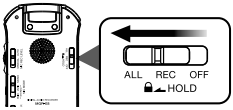
Preventing accidental operation (Hold function)

The HOLD function defeats all of this unit's buttons and helps prevent erroneous operation when this unit is carried in a bag, etc.

Defeating all control buttons

1 Set the hold function for all buttons of this unit

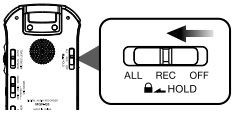
Slide [HOLD] to the "ALL" position.



Defeating only the record button

1 Set the hold function for the REC button

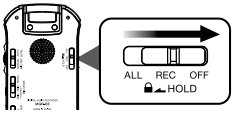
Slide [HOLD] to the "REC" position.



Enabling all buttons

1 Cancel the hold function

Slide [HOLD] to the "OFF" position.



- When a defeated button is pressed while either hold function is set, "Keys: ALL HOLD" or "Keys: REC HOLD" is displayed.

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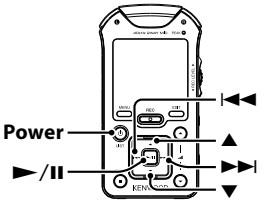
Switching on for the first time

When you switch this unit on for the first time after purchase, you need to set the language used in the display and the current date/time information. It is recommended to set the correct date and time because each of the recorded file will be named after the date and time of each recording session (time stamp function).



1 Switch this unit ON

Press the [Power] until the KENWOOD logo is displayed.

2 Setting the menu language

Press [▲]/[▼] to select language and press [►/II].

3 Setting the date and time

- **Press [I◄◄]/[►►I] to select Year, Month, Day, "24H/AM/PM", Hour and Minute.**
- **Press [▲]/[▼] to vary the figures of date and time.**

4 Enter the date and time

Press [►/II].

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- The language set here will be used in the subsequent screen display.
- The language and date/time set here are held even after this unit is switched off.
- The information set here can later be modified in <Language> (page 60) and <Clock setting> (page 62), both of which belonging to <Common setting> under "Menu".
- If the remaining battery power is low, connect this unit to a PC for recharging. About 10 minutes of recharging will make it possible to check the operations of this unit. (page 17)

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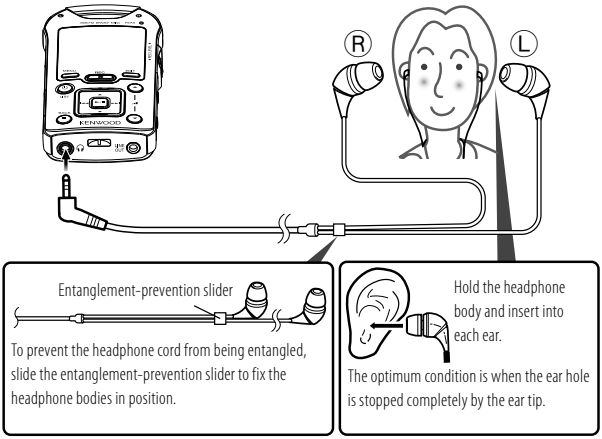
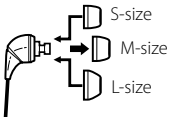
Connecting stereo headphones

Connect the provided stereo headphones to this unit.



Selecting the ear tips

The headphones are shipped from the factory with the M-size ear tips attached. If the M-size ear tips do not match your ears, replace them with the provided S-size or L-size ear tips.



- Always hold the headphone bodies when attaching or detaching headphones. Pulling a cord may result in malfunction.
- To clean the ear tips, remove them from the headphone bodies and wash with a neutral detergent solution. After washing, wipe them dry before use.
- The ear tips may deteriorate after a long period of use or storage.

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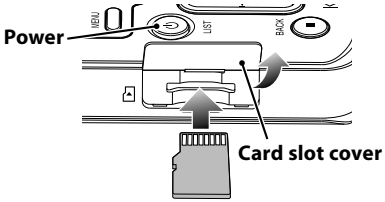
Inserting/ removing a microSD card

This unit can play music stored in a microSD card or recording music in a microSD card.
This unit accepts a microSD or microSDHC memory card. For details, see <Specifications> (page 76).



1 Press and hold [Power] until the display is turned off

2 Open the card slot cover

3 Inserting/ removing a microSD card

■ **To insert a microSD card**

Hold the microSD card so that the terminal pins face upward as shown in the illustration, and push insert the card straight into the card slot until it clicks.

■ **To remove a microSD card**

Push the microSD card until it clicks and then remove your finger from the card. The card pops up so that you can pull it out with your fingers.

4 Close the card slot cover

- A microSD or microSDHC card that has been formatted with another device, including a cell-phone, may be unusable with this unit. Be sure to format the card in this unit before use. (page 57)
- If <DB Auto Update> is set to <Manual Update>, the files in the microSD card cannot be displayed. In this case, please update the DB. (page 60)
- When the microSD card is inserted, SD is displayed on the screen.

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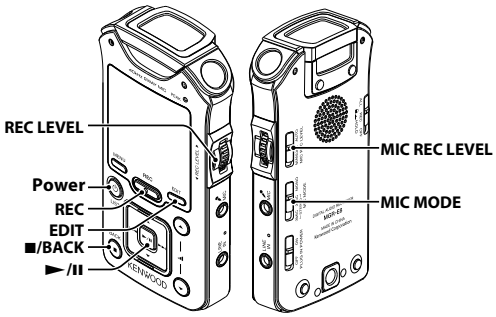
Basic recording operation



Preparing for recording

1 Switch this unit ON

Press [Power].

2 Setting the recording format

Select in <Rec format> under "Rec setting". (page 35)

The default recording format set before this unit left the factory is "WAV 44.1kHz 16bit".

3 Select a folder for recordings

Select in <MIC Rec destination> under "Rec setting". (page 31)

The default folder set before this unit left the factory is "MIC_A".

4 Setting the microphone mode

Slide [MIC MODE] to select the microphone mode.

Setting	Setting overview	Display
3MIC	Stereo recording mode using the L/R (omnidirectional) and Center (unidirectional) built-in microphones. This mode can record audio with high directivity in the front direction while restricting the ambient noise.	3MIC

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Setting	Setting overview	Display
2MIC	Stereo recording mode using the L/R (omnidirectional) built-in microphones that are installed at an angle of 120°. This mode can record stereo audio with a rich feeling of expansion.	
MONO	Monaural recording mode using only the Center (unidirectional) built-in microphone. This mode can record audio with high directivity in the front direction.	

5 Set the recording level

■ **To set the recording level automatically**

Slide [MIC REC LEVEL] to the "AUTO" position.

This setting records audio at as uniform as possible level and is therefore suitable for recording of a speech, etc.

■ **To set the recording level manually**

Slide [MIC REC LEVEL] to the "MANUAL" position. (page 32)

Starting to record

1 Enter recording standby mode

Press [REC].

is displayed.

■ **To set the recording level manually**

Turn [REC LEVEL]. (page 32)

2 Starting to record

During recording standby, press [REC].

is displayed.

■ **To pause recording**

Press [REC]. Press it again to resume recording.

is displayed.

Continued to next page

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■ **To divide a recorded file**

During recording, press [EDIT].

Stop recording

1 Stop recording

Press [■/BACK].

About wind noise

If the "wind noise" due to strong wind causes a problem during outdoor recording, attach the provided windscreen to this unit. It will be effective for reduction of the "wind noise".

About successive recording

Every file can record data until the file size becomes 2 GB.
When the size of a file exceeds 2 GB, it is automatically switched to another file and recording is continued in it.
The maximum recording time per file is variable depending on the recording format.

Recording format	Maximum recording time
WAV 96kHz 24bit	Approx. 55 minutes
WAV 48kHz 24bit	Approx. 1 hour 50 minutes
WAV 44.1kHz 24bit	Approx. 2 hours
WAV 96kHz 16bit	Approx. 1 hour 20 minutes
WAV 48kHz 16bit	Approx. 2 hours 45 minutes
WAV 44.1kHz 16bit	Approx. 3 hours
MP3 320kbps	Approx. 13 hours 30 minutes
MP3 192kbps	Approx. 22 hours 30 minutes
MP3 128kbps	Approx. 33 hours 50 minutes
MP3 96kbps	Approx. 45 hours

* Recording for the maximum recording time is impossible with certain formats. With such formats, it is required to power this unit from the external power supply. (page 18)

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- The built-in speaker does not output audio during recording.
- Use headphones to monitor the audio being recorded. The headphones volume can be adjusted by pressing [▲] or [▼]. This volume adjustment does not affect the recording level.
- During monitoring of the recorded audio through the headphones, a howling sound may be produced if the headphones are too close to the microphone. If this happens, increase the distance between the microphone and headphones or reduce the headphones monitoring volume.

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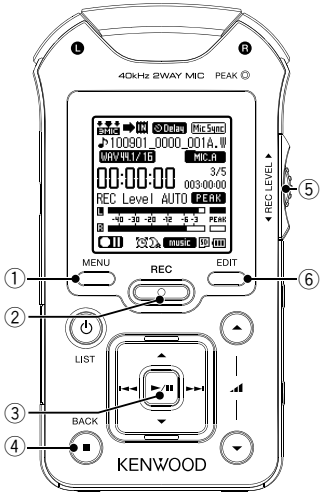
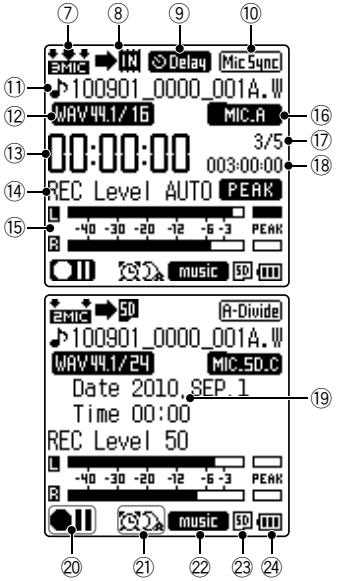
Control and display during recording



Example of display



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① **MENU button**
- Press during stop or recording standby mode to open the menu. The menu can be used in settings of recording format, etc. (page 35)

② **REC button**
- Press during stop mode to enter the recording standby mode.
- Press during recording standby to start recording.
- Press during recording to let it pause temporarily.

③ **►/II Play/Pause button**
- Press during stop mode to start playing recorded files.

④ **■/BACK Stop/Back button**
- Press during recording or recording standby mode to stop recording.
- Press during stop mode to switch the displayed information between the recording time and current date/time.

⑤ **REC LEVEL Recording level knob**
- Turn to adjust the recording level. (page 32)

⑥ **EDIT button**
- Press during recording standby to set the AUTO recording level adjustment. (page 32)
- Press during standby to divide the recorded file.
- Press during stop mode to open the file edit screen.

⑦ **Microphone mode** (page 24)

⑧ **Recording destination** (page 35)

⑨ **Delayed recording** (page 36)

⑩ **Sync recording/ Auto divide recording** (page 36)

⑪ **Recorded file name**

⑫ **Recording format** (page 35)

⑬ **Elapsed recording time**

⑭ **Recording level setting**

⑮ **Level meter**

⑯ **Save destination folder** (page 35)

⑰ **File number/ Total number of files in save destination folder**

⑱ **Remaining recording time**

⑲ **Current date/time**

⑳ **Recording mode**
: Recording standby
: Recording
: Recording pause
: Stop

㉑ **Sleep timer/ Alarm timer** (page 64)

㉒ **Recording equalizer** (page 58)

㉓ **Presence of microSD card** (page 23)

㉔ **Remaining battery power** (page 16)

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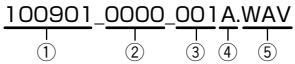
Folders and recorded files

Name of recorded files

The files recorded with this unit are named based on the date/time the recording is started.



① Recording start date (2 last digits of year, month and day)

② Recording start time (hour and minute)

③ File number, which is the sequential number of file in the folder. The file number varies when files are deleted, divided or moved.

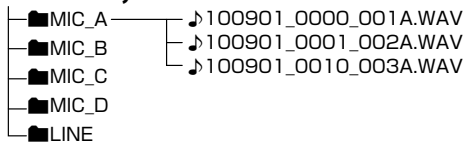
④ Save folder name A, B, C or D, which represents one of "MIC_A" to "_D". "L" represents LINE.

⑤ File format

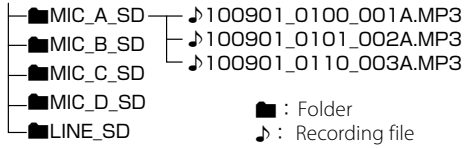
About folders

Folders MIC_A to MIC_D for microphone recording and a folder LINE for line recording are provided in each of the internal memory and the SD card.

Internal memory



SD card



• Each folder can accommodate up to 199 recorded files.

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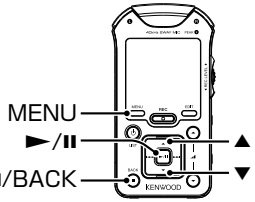
Switching the folder



1 Enter MENU mode

During stop and recording standby, press [MENU].

✎ If [MENU] is pressed during recording standby, go to step 3 below.

2 Enter the Rec setting

Press [▲]/[▼] to select "Rec setting" and press [►/II].

3 Set the recording destination

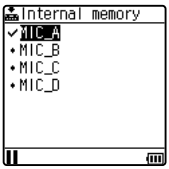
■ **To set the microphone recording destination**

Press [▲]/[▼] to select "MIC Rec destinat" and press [►/II].

Press [▲]/[▼] to select "Internal memory" or "SD card" and press [►/II].

Press [▲]/[▼] to select the folder (one of MIC_A to MIC_D) and press [►/II].

The "✓" mark indicates the current setting.



■ **To set the line recording destination**

Press [▲]/[▼] to select "LINE Rec destinat" and press [►/II].

Press [▲]/[▼] to select "Internal memory" or "SD card" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

4 Exit MENU mode

Press [MENU].

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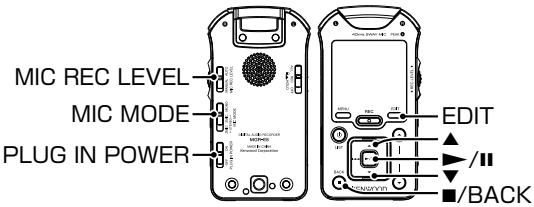
Other recording operations



Recording by manually adjusting the microphone recording level

1 Set the MANUAL recording level adjustment

Slide [MIC REC LEVEL] to the "MANUAL" position.

2 Enter the recording standby mode

Press [REC].

3 Adjusting the recording level

Turn [REC LEVEL] to adjust.

While observing the level meter and PEAK indicator, adjust the recording level usually to between -6 and -12 dB.

■ **To set the AUTO recording level adjustment**

During recording standby, press [EDIT].

The recording level will be set according to the maximum input volume.

Press [EDIT] to complete the setting of the AUTO recording level adjustment.

■ **If the recording level is excessive even when [REC LEVEL] is reduced**

Set <Mic gain> under "Rec setting" to LOW. (page 35)

■ **To reduce audio distortion by automatically adjusting sudden input of high-level sound**

Set <Analogue limiter> under "Rec setting". (page 36)

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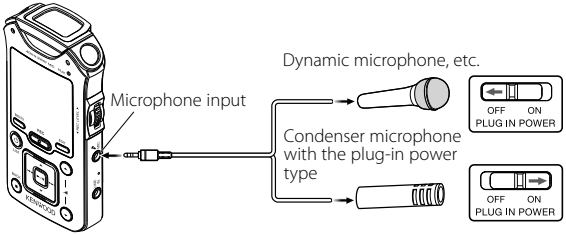
Recording from an external microphone



1 To connect to external microphone

Connect an external microphone to [🎤 MIC] jack.

■ **To connect a plug-in power type microphone**

Slide [PLUG IN POWER] to the "ON" position.

2 Prepare and start recording

Start recording following the instructions in <Basic recording operation> (page 24).

• Do not connect anything to the line input terminal.

Continued to next page

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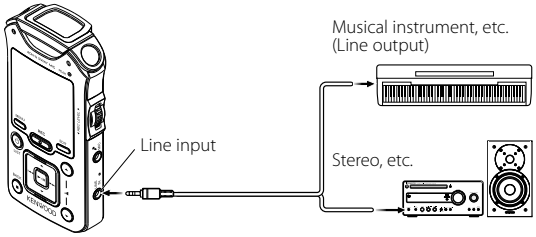
Recording from an external audio component or musical instrument connected to the line input



1 Connect the audio component

Connect the desired audio component to the [LINE IN] terminal.

2 Enter recording standby mode

Press [REC].

3 Adjust the recording level

Turn [REC LEVEL] to adjust.

While observing the level meter and PEAK indicator, adjust the recording level usually to between -6 and -12 dB.

■ **To set the AUTO recording level adjustment**

During recording standby, press [EDIT].

The recording level will be set according to the maximum input volume.

Press [EDIT] to complete the setting of the AUTO recording level adjustment.

4 Starting to record

During recording standby, press [REC].

• Do not connect anything to the microphone input terminal.

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Changing the Recording Settings

The "Rec setting" allows you to set various items according to the type of the recorded sound.

Item	Setting		Setting overview	Int. Mic	Ext. Mic	Line
Rec format	WAV 96kHz 24bit/ WAV 48kHz 24bit/ WAV 44.1kHz 24bit/ WAV 96kHz 16bit/ WAV 48kHz 16bit/ WAV 44.1kHz 16bit*		Linear PCM formats with which recorded audio is not compressed. Larger figures mean higher audio quality. The 44.1 kHz sampling frequency and 16 quantization bits are most suitable for recording of a music CD, etc.	●	●	●
	MP3 320kbps/ MP3 192kbps/ MP3 128kbps/ MP3 96kbps		Recorded audio is compressed in the MP3 format. Larger figures mean higher audio quality. Smaller figures mean longer recording time. Select the folder for saving the file recorded using the microphone.			
MIC Rec destinat	Internal memory	MIC_A*/B/C/D	It is convenient to select folders according to the recording contents, for example for concerts or for exercise.	●	●	
	SD card	MIC_A/B/C/D_SD				
LINE Rec destinat	Internal memory*		Select the folder for saving the file recorded using the line input.			●
	SD card					
Rec Equalizer	OFF*/Music/Voice/Vocal/Noise cut		Set the equalizer according to the recorded sound for reducing ambient noise, etc.	●	●	
CENTER Mic sens.	High/Normal*/Low		When recording sound in the 3-microphone mode, select the center microphone sensitivity (i.e. the ratio of mixing).	●		
Mic gain	High*/Low		Usually set to High. Set to Low when recording a loud sound.	●	●	

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Item	Setting	Setting overview	Int. Mic	Ext. Mic	Line
Mic Sync Rec	OFF*/ON	Recording starts in synchronism with the start of microphone sound input. Recording pauses when no sound has been input for 2 seconds. This item is enabled when [MIC REC LEVEL] is set to AUTO.	●	●	
Analogue limiter	OFF*/ON	When high-level sound is input suddenly while this item is set to ON, the recording level is automatically adjusted to prevent distortion of the recorded audio. This item is enabled when [MIC REC LEVEL] is set to MANUAL.	●	●	
Low-cut filter	OFF*/ON	Set to ON to reduce noise from the air conditioner or blowing wind by cutting off the low frequencies.	●	●	
Delay Rec	OFF*/5sec/10sec/30sec	Set the delay time reserved before actual recording starts after [REC] is pressed. This is convenient when preparation is required before starting recording, for example for checking the musical instruments, etc.	●	●	●
Line auto divide	OFF*/ON	When this item is ON, recording on a new file begins when no sound has been input for 2 seconds.			●
Auto divide level	High/Mid*/Low	Set the level for detecting the beginning of music.			●

(* : Factory setting)

• Since the <Mic Sync Rec> and <Line auto divide> recordings start after the start of audio is detected, the initial section of the audio may not be recorded. To prevent this, do not use these settings for important recordings. It is recommended to record a single file and divided it later. (page 40)

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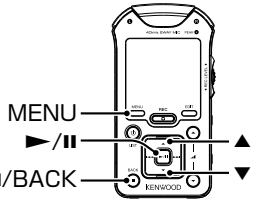


1 Enter MENU mode

During stop and recording standby, press [MENU].

✎ If [MENU] is pressed during recording standby, go to step 3 below.

2 Enter the Rec setting

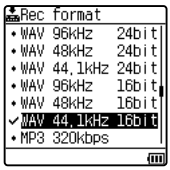
Press [▲]/[▼] to select "Rec setting" and press [►/II].

3 Set each item

Press [▲]/[▼] to select a setting item and press [►/II].

Press [▲]/[▼] to select a setting value and press [►/II].

The "✓" mark indicates the current setting.



■ **Press [■/BACK] to return to the previous screen page.**

4 Exit MENU mode

Press [MENU].

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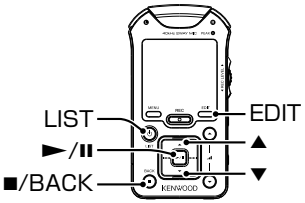
Moving a recorded file

The files recorded with this unit can be moved between the internal memory and SD card. When a file is moved, the file in the original location is deleted.



1 Enter list mode

Press [LIST].

2 Select the Recorded file control item

Press [▲]/[▼] to select "Recorded" and press [►/II].

3 Select a folder

Press [▲]/[▼] to select "Internal memory" or "SD card" and press [►/II].

Press [▲]/[▼] to select "MIC_A" to "_D" or "LINE" and press [►/II].

4 Select the recorded file to be moved

Press [▲]/[▼] to select recorded file and press [►/II].

5 To stop playback

Press [■/BACK].

6 Enter File edit mode

Press [EDIT].

7 Select the file movement operation

Press [▲]/[▼] to select "File move" and press [►/II].

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8 Move the recorded file

Press [▲]/[▼] to select "To SD card" or "To internal memory" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

9 Exit File edit mode

Press [EDIT].

- Only the files recorded with this unit can be moved.
- Recorded files can be moved between the specified folders.
  Example: "Internal memory" - "MIC_A" ⇆ "SD card" - "MIC_A_SD"
- When a recorded file is moved, the file number sections in the file names are changed.

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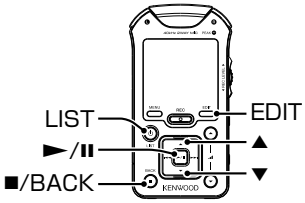
Dividing a recorded file

A file recorded with this unit can be divided into two files.



1 Enter list mode

Press [LIST].

2 Select the Recorded file control item

Press [▲]/[▼] to select "Recorded" and press [►/II].

3 Select a folder

Press [▲]/[▼] to select "Internal memory" or "SD card" and press [►/II].

Press [▲]/[▼] to select "MIC_A" to "_D" or "LINE" and press [►/II].

4 Select the recorded file to be divided

Press [▲]/[▼] to select recorded file and press [►/II].

5 Enter File edit mode

Press [EDIT] at the point you want to divide the file.

6 Divide the recorded file

Press [▲]/[▼] to select "File divide" and press [►/II].

When the confirmation message is displayed, press [▲]/[▼] to select "Yes" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

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- Only the files recorded with this unit can be divided.
- A recorded file cannot be divided in the following cases.
  - When the folder containing the file already contains 199 files.
  - When the recording time of the file is short.
  - When the point to divide the file is close to the end of the file.
  - When the internal memory or microSD card does not have enough available space.
- When a recorded file is divided, the file number sections in the file names are changed.

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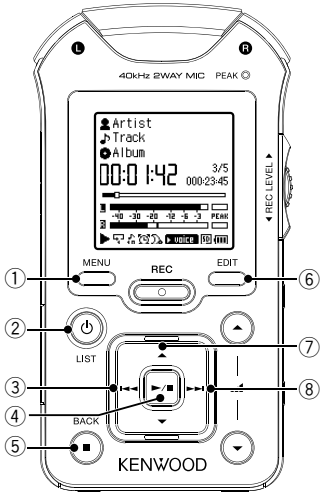
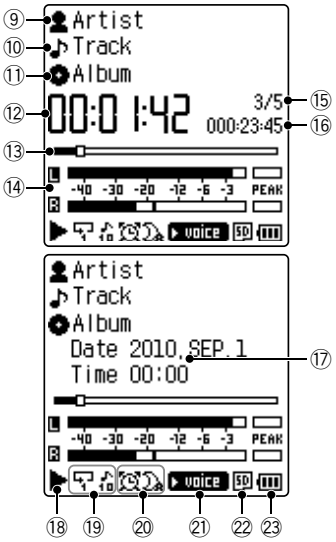
Operations and display in playback



Example of display



Resume function

This unit memorizes the status immediately before it is switched off. Next time it is switched on, it enters pause mode at the position playback was last stopped.

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① **MENU button**
Press to open the menu. The menu can be used in settings of playing mode, etc. (page 46)

② **⏻/LIST Power/List button**
Press to open the list screen at the highest level of hierarchy.

③ **|◄◄ Left button**
Press to play the current or previous track from the beginning.
Press and hold to fast reverse the music.

④ **►/II Play/Pause button**
Press during playback to let it pause temporarily.
Press again to resume playback.

⑤ **■/BACK Stop/Back button**
- Press during playback to stop it.
- Press during stop mode to switch the displayed information between the playing time and current date/time.

⑥ **EDIT button**
- Press during playback to add/ delete favorite tracks or set A-B repeat.
- Press during stop mode to open the file edit screen.

⑦ **▲ Up button**
Press to open the list screen.

⑧ **►►| Right button**
Press to play the next track from the beginning.
Press and hold to fast forward the music.

⑨ **Artist name**

⑩ **Track title**

⑪ **Album title**

⑫ **Elapsed play time**

⑬ **Time progress bar**

⑭ **Level meter**

⑮ **Track No./ Number of selected tracks**

⑯ **Total play time**

⑰ **Current date/time**

⑱ **Playback mode**
- ▶ : Play
- II : Pause
- ▶▶ : Fast forward
- ◀◀ : Fast reverse
- : Stop

⑲ **Play mode** (page 46)

⑳ **Sleep timer/ Alarm timer** (page 64)

㉑ **Sound mode** (page 58)

㉒ **Presence of microSD card** (page 23)

㉓ **Remaining battery power** (page 16)

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Playback by selecting music from the list

The files recorded with this unit can be played by selecting the folder. The music files transferred from the PC can be searched based on DB classified by their tag informations. (page 72)

Category	Contents
Artist	A music file transferred from the PC can be selected in order of Artist name*3 → Album title*1 → Track title*1.
Album	A music file transferred from the PC can be selected in order of Album title*1 → Track title*1.
Track	A music file transferred from the PC can be selected by Track title*2.
Favorite	Music files can be selected from a list of user-registered tracks. (page 50)
Genre	A music file transferred from the PC can be selected in order of Genre name*3 → Artist name*3 → Album title*1 → Track title*1.
Music folder	A music file can be selected by selecting the internal memory or SD card and then following the folder hierarchy.
Recorded	A music file recorded with this unit can be selected in order of Internal memory/SD card → Folder → Filename.
KWD folder	A music file can be selected by selecting the internal memory or SD card and then following the folder hierarchy.

- If <DB Auto update> is set to <Manual update>, be sure to update the DB after transferring music files. (page 60)
- With "Artist", "Album", "Track" and "Genre", music files in the MUSIC and KWD folders in both the internal memory and SD card are displayed.
- A track that does not contain tag information is classified as "No Information".
- The music tracks are played back in either order described below.

*1 Track number: Order of track numbers in the tag information. When there is no track number, the tracks are played in order of track titles or file names.

*2 Track title: Order of track titles or file names in the tag information.

*3 Album title: Order of album titles or folder names in the tag information. The files in each album are played in order of track numbers.

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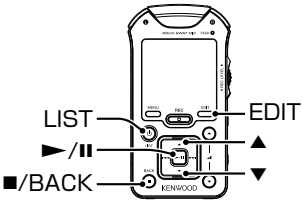

1 Enter list mode

■ **To open the list screen at the highest level of hierarchy**

Press [LIST].

■ **To open the list screen at the level of the music file being played**

Press [▲].

2 Select the list category to be used for selecting the desired music file

Press [▲]/[▼] to select category and press [►/II].

3 Select the desired music file

Press [▲]/[▼] to select an item and press [►/II] to enter. Repeat these operations until the desired music file is displayed.

For instance, if you selected category <Artist> in the above, select items in order of <Artist> → Artist name → Album title → Track title.

If you select "All tracks", all of the tracks belonging to the selected item, such as <Artist>, will be displayed.

■ **Press [■/BACK] to return to the previous screen page.**

• If <Music folder> or <KWD folder> is selected, the operations in step 3 should be repeated in each level of the folder hierarchy.

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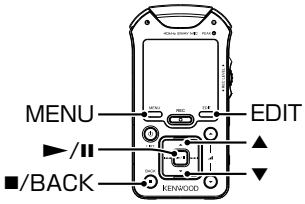
Various play modes

The "Play setting" makes it possible to select various playback methods.

Item	Setting	Setting overview	Display
Play mode	OFF	Plays music in a list.	
	ONE Repeat	Playback of the same track repeatedly.	
	ALL Repeat	Playback of all of the tracks in the list repeatedly.	
	Random	Repeated playback of all of the tracks in the list in a random order.	
Play speed	200% — 100% — 50%	The playback speed can be changed. (page 48) 200% — 100%: 10% step 100% — 50%: 5% step	200% 50%
Intro play	OFF	Playback of the introduction parts of all of the tracks in the list, playing the first 10 seconds of every track.	
	ON		
FF/FB Speed	High/Mid/Low	The fast forward and fast reverse speed can also be varied in 3 steps.	
Time search	-	The desired point in a file can be specified by the playing time information. (page 49)	
Property	-	Information on the music file (format, etc.) can be viewed.	



Setting the playback setting items

1 Enter MENU mode

Press [MENU].

✎ If [MENU] is pressed during playback, go to step 3 below.

2 Enter the Play setting

Press [▲]/[▼] to select "Play setting" and press [►/II].

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3 Set each item

Press [▲]/[▼] to select a setting item and press [►/II].

Press [▲]/[▼] to select a setting value and press [►/II].

The "✓" mark indicates the current setting.

■ **Press [■/BACK] to return to the previous screen page.**

4 Exit MENU mode

Press [MENU].

Setting A-B repeat

1 Set the start point (point A)

Press [EDIT] at the point you want to set as the start point of the repeated section.

2 Select A-B repeat

Press [▲]/[▼] to select "A-B repeat" and press [►/II].

3 Set the end point (point B)

Press [EDIT].

■ **To cancel A-B Repeat**

Press [EDIT].

Press [▲]/[▼] to select "Cancel A-B repeat" and press [►/II].

- The A-B repeat mode is canceled when another file is selected or the fast forward/fast reverse operation is performed.
- A-B Repeat cannot be set if points A and B are too close to each other.

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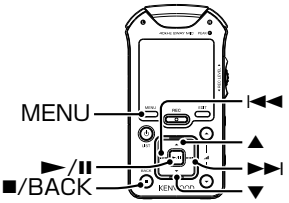
Varying the playback speed

The playback speed can be increased or decreased.

Setting	Setting overview	Display
200% —	Increases the playback speed in 10% increments.	200%
100%	Playback at the original speed.	100%
— 50%	Decreases the playback speed in 5% decrements.	50%



1 Enter MENU mode

Press [MENU].

✎ If [MENU] is pressed during playback, go to step 3 below.

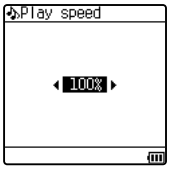
2 Enter the Play setting

Press [▲]/[▼] to select "Play setting" and press [►/II].

3 Set the play speed

Press [▲]/[▼] to select "Play speed" and press [►/II].

Press [I◄◄]/[►►I] to select the playback speed and press [►/II].



■ **Press [■/BACK] to return to the previous screen page.**

4 Exit MENU mode

Press [MENU].

• The play speed of files recorded in the WAV 96-kHz 24/16-bit, WAV 88.2-kHz 24/16-bit or monaural format cannot be changed.

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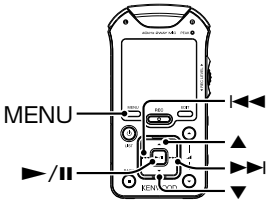
Searching the point to be played by specifying the time

The desired point in a file can be specified by the playing time.



1 Select the desired track

Play the desired track. (page 44)

2 Enter MENU mode

Press [MENU].

3 Select the time search

Press [▲]/[▼] to select "Time search" and press [►/II].

4 Specify the time of the point you want to start playback

- **Press [|◄◄]/[►►|] to select Hour, Minute and Second.**
- **Press [▲]/[▼] to vary the figures.**

5 Start playback from the specified time point

Press [►/II].

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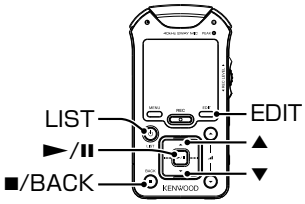
Adding to/Deleting from the Favorite

Tracks you are particularly fond of can be registered in the Favorite folder for playing only the favorite tracks later.
Up to 100 tracks can be added to the Favorite folder.



Adding to the Favorite

1 Select the track to be added to the Favorite folder
Play the desired file or select it in the list. (page 44)

2 Enter File edit mode
Press [EDIT].

3 Add the track in the Favorite folder
Press [▲]/[▼] to select "Add : Favorite" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

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Playing Favorite

The tracks in the Favorite folder can be played in the order they were added to it.

1 Enter list mode

Press [LIST].

2 Select the Favorite folder

Press [▲]/[▼] to select "Favorite" and press [►/II].

3 Select a track

Press [▲]/[▼] to select a track and press [►/II].

Deleting from the Favorite

1 Select the track to be deleted from the Favorite folder

Perform the procedure in <Playing Favorite> above to play the tracks to be deleted.

Press [▲]/[▼] to move the cursor on the file to be deleted.

2 Enter File edit mode

Press [EDIT].

3 Delete the track from the Favorite folder

Press [▲]/[▼] to select "Delete 1 track" or "Delete All" and press [►/II].

■ **To select "Delete All"**

When the confirmation message is displayed, press [▲]/[▼] to select "Yes" and press [►/II].

• A track selected from the list or that being played can also be added to or deleted from the Favorite folder.

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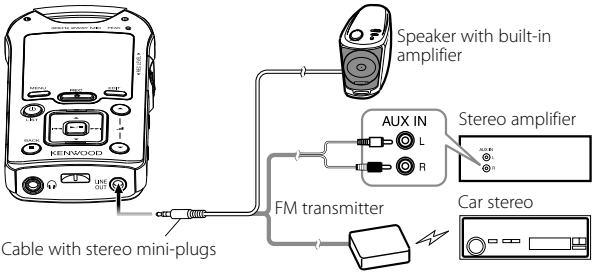
Connection of external components

The Line output can be used to connect an external component such as a speaker with built-in amplifier.
The USB connector can be used to connect an external component such as a stereo set with USB capability.

Connecting to the Line outout



1 Switch this unit ON

2 Connect an external component

Connect it to the [LINE OUT] terminal of this unit.

- Prepare an optimum audio cable (commercially available) according to the input terminal of the connected external component.
- When using a FM transmitter, noise may be interfered depending the installation environment, including the vehicle model, devices in the surroundings and the antenna positioning.
- Do not use or leave this unit or connected component in an automobile compartment with high temperatures. Otherwise, equipment failure may result.
- During monitoring of the recorded audio through the speaker(s) of the external component, a howling sound may be produced if the speaker(s) is too close to the microphone. If this happens, increase the distance between the microphone and speaker(s) or reduce the speaker monitoring volume.

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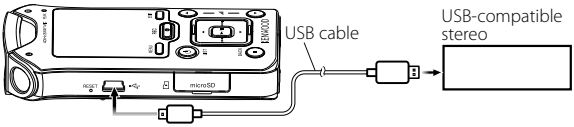
Connecting to the USB connector



1 Connect a USB cable to the USB jack of this unit

- For the operating procedure and the playable files, read the instruction manual for the connected stereo set.
- Do not use or leave this unit or connected component in an automobile compartment with high temperatures. Otherwise, equipment failure may result.
- When the temperature of this unit exceeds the operation temperature range, the protection circuit is activated, which makes recharging impossible. (page 76 <Operational Temperature Range>)
- The internal memory and the SD card are recognized as separate drives. If a drive cannot be selected from USB-compatible stereo component, change the "Prioritized Drive" setting. (page 60)
- When <DB Auto update> is set to <Auto update> (page 60), the USB connection is canceled and this unit updates the database when the stereo set is switched off, its input selector is switched or the USB cable is disconnected. If you want to reconnect the USB cable to the stereo set, wait until the database updating completes.

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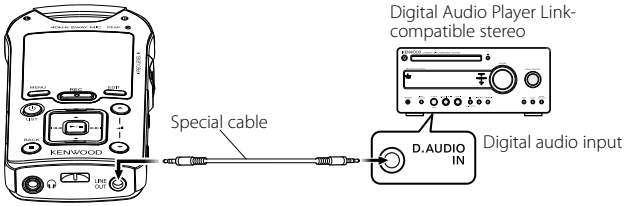
Digital Audio Player Link

When this unit is connected to a Kenwood audio component with the Digital Audio Player Link compatibility, playback of this unit can be controlled from the external audio component.



1 Switch this unit ON

2 Connect a stereo

Connect it to the [LINE OUT] terminal of this unit.

3 Set the input selector of the connected stereo set to "Digital Audio"

This unit's operations including "Play/Pause" and "Skip Up/Down" can be controlled from the main unit and remote control unit of the connected stereo.

- Examples of Digital Audio Player Link-compatible stereo models: AX-7, C-313, C-515BT, C-616DV, C-707I, K-323, K-501USB, K-511USB, K-521, K-711, K-821DV, R-K1, R-K1000 (as of September 2010)
- For details and operating method of the Digital Audio Player Link, refer to the instruction manual for a Digital Audio Player Link-compatible audio component.
- With the "folder skip" operation, the album is changed when a track is selected from an album.

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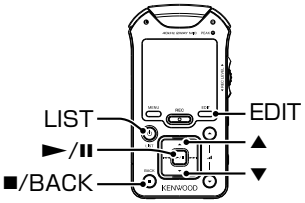
Deleting files

Deleting a selected file



1 Enter stop mode

Press [■/BACK].

2 Enter list mode

Press [LIST].

3 Select the file to be deleted

Press [▲]/[▼] to select an item and press [►/II] to enter. Repeat these operations until the desired music file is displayed.

Press [▲]/[▼] to move the cursor on the file to be deleted.

✎ If the music starts to play, press [■/BACK] to stop it.

4 Enter File edit mode

Press [EDIT].

5 Delete the selected file

Press [▲]/[▼] to select "File delete" and press [►/II].

When the confirmation message is displayed, press [▲]/[▼] to select "Yes" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

• If <DB Auto update> is set to <Manual update>, the file does not disappear from the list even after it has been deleted. In this case, update the DB. (page 60)

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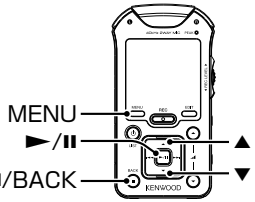
Deleting all files (Formatting)

Caution
- Formatting deletes all of the files in this unit.
- Once formatted, the memory cannot be restored to the previous condition.



1 Enter stop mode
Press [■/BACK].

2 Enter MENU mode
Press [MENU].

3 Select the common setting and then the formatting operation
Press [▲]/[▼] to select "Common setting" and press [►/II].
Press [▲]/[▼] to select "Format" and press [►/II].

4 Select either Internal memory or SD card
Press [▲]/[▼] to select "Internal memory" or "SD card" and press [►/II].
When the confirmation message is displayed, press [▲]/[▼] to select "Yes" and press [►/II].

■ **Press [■/BACK] to return to the previous screen page.**

5 Exit MENU mode
Press [MENU].

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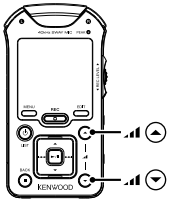
Adjusting the audio

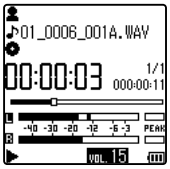
Adjusting the volume



1 Adjusting the volume

Press [▲] or [▼].

Pressing and holding a button segment varies the volume gradually.



- If the headphone volume is increased too much, you will be unable to hear the sounds from outside. Be careful not to increase the volume too much.
- The adjustment range of the built-in speaker is different from that of the headphones output.
- If headphones are connected after playing audio at a high volume through the built-in speaker, the headphone volume may become very high. Be sure to decrease the speaker volume before connecting headphones.

Selecting the sound effects

Select one of the 8 modes.

Setting	Setting overview	Display
OFF*	Playback in normal tone.	
Bass/ Pops/Rock/ Jazz/ Dance/ Voice	Playback in a tone matching the genre of music.	▶bass ▶pops ▶rock ▶jazz ▶dance ▶voice
Custom	Desired tone can be set using a 5-band custom equalizer.	▶custom

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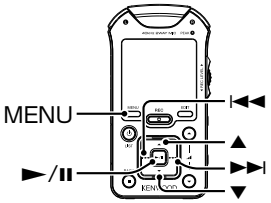


1 Enter MENU mode

During playback, press [MENU].

2 Select the sound mode setting under the play setting

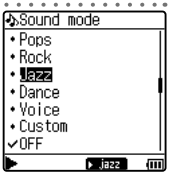
Press [▲]/[▼] to select "Play setting" and press [►/II].

Press [▲]/[▼] to select "Sound mode" and press [►/II].

3 Select the Sound mode

Press [▲]/[▼] to select the Sound mode and press [►/II].

The "✓" mark indicates the current setting.

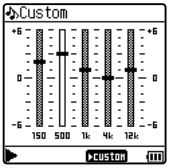


■ **To select "Custom"**

4 Set the equalizer

■ **Press [I◄◄]/[►►I] to select a frequency band.**

■ **Press [▲]/[▼] to vary its level.**



5 Enter the equalizer setting

Press [►/II].

6 Exit MENU mode

Press [MENU].

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Common settings under the menu

Some function items of this unit including the display brightness and auto power OFF function can be set as desired.

Item	Setting	Setting overview
Clock setting	-	Set the date and time. (page 62)
DB Auto update	Auto update*	The DB is updated automatically when this unit is switched ON, a file is edited or the microSD card is inserted or removed.
	Manual update	The DB is not updated automatically. The DB can be updated by selecting <DB update now>. This setting is to be selected for example when you want to start recording immediately after switching this unit on.
DB update now	No/Yes	The DB is updated immediately. This item is to be executed when there is an unplayable file.
Indicator	OFF/ON*	Sets whether the REC and PEAK indicators are displayed.
Backlight dimmer	High/Mid*/Low	Selects the display brightness.
Lighting time	OFF/5 sec/10 sec*/ 30 sec/60 sec/ Continuous	Selects the time after which the display backlight is turned off when no operation has been performed.
LCD Contrast	Level 1 — 5* — 10	Adjusts the display contrast.
Auto power off	3 min/5 min*/ 10 min/30 min	Select the time until this unit is switched OFF when no operation including recording or playback is performed.
Beep	OFF*/ON	Select whether or not a beep is generated when a button is pressed.
Prioritized drive	Internal memory*/ SD card	Sets the prioritized drive for USB connection.
Timer setting	OFF*/Sleep timer/ Alarm timer	The sleep timer makes it possible to switch this unit OFF after the set period of time. The alarm timer makes it possible to generate an alarm (beep tone) after the set period of time. (page 64)
Language	日本語/ ENGLISH	Select the language used for the displayed menus, etc.
Format	Cancel/Internal memory/SD card	Formats either the internal memory or SD card. (page 57)
Setting reset	No/Yes	Resets the settings of this unit to the default settings made at the factory. It does not delete the music data, etc.

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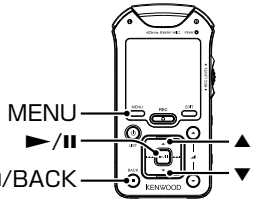
Item	Setting	Setting overview
System info.	-	Displays the system information of this unit (model ID, firmware version, available memory capacity, total memory capacity).

(* : Factory setting)



1 Enter stop mode

Press [■/BACK].

2 Enter MENU mode

Press [MENU].

3 Enter the common setting

Press [▲]/[▼] to select "Common setting" and press [►/II].

4 Select the item to be set

Press [▲]/[▼] to select a setting item and press [►/II].

5 Vary the setting value

Press [▲]/[▼] to select a setting value and press [►/II].

The "✓" mark indicates the current setting.

■ **Press [■/BACK] to return to the previous screen page.**

6 Exit MENU mode

Press [MENU].

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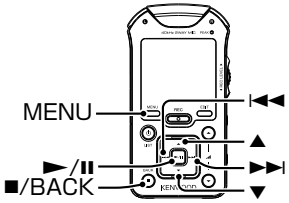
Setting the time

Adjust the date and time of this unit.
The date/time information is required for naming the recorded files.
It is recommended to set the accurate date and time.



1 Enter stop mode
Press [■/BACK].

2 Enter MENU mode
Press [MENU].

3 Enter the common setting
Press [▲]/[▼] to select "Common setting" and press [►/II].

4 Select the clock setting
Press [▲]/[▼] to select "Clock setting" and press [►/II].

5 Set the date and time

- **Press [I◄◄]/[►►I] to select Year, Month, Day, "24H/AM/PM", Hour and Minute.**
- **Press [▲]/[▼] to vary the date and time.**
- **Press [■/BACK] to return to the previous screen page.**

6 Enter the date and time
Press [►/II].

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7 Exit MENU mode

Press [MENU].

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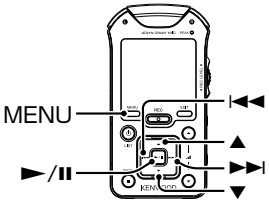
Sleep timer and alarm timer

Item	Contents	Display
OFF	Both the sleep timer and alarm timer are switched off.	
Sleep timer	This unit can be switched off after the set period of time.	
Alarm timer	An alarm tone (beep) can be generated after the set period of time.	



1 Enter stop mode

Press [■/BACK].

2 Enter MENU mode

Press [MENU].

3 Select the common setting and then the timer setting

Press [▲]/[▼] to select "Common setting" and press [►/II].

Press [▲]/[▼] to select "Timer setting" and press [►/II].

4 Select the sleep timer or alarm timer

Press [▲]/[▼] to select the timer to be set and press [►/II].

5 Specify the timer period

■ **To set the sleep timer**

Press [|◄◄]/[►►|] to select the time until the sleep timer is activated.

To switch only the sleep timer off, select "OFF".

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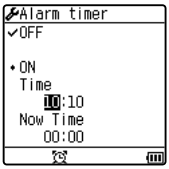
■ **To set the alarm timer**

Press [▲]/[▼] to select "ON" and press [►/II].

To switch only the alarm timer off, select "OFF".

Press [I◄◄]/[►►I] to select the hour or minute.

Press [▲]/[▼] to vary the figure.



■ **Press [■/BACK] to return to the previous screen page.**

6 Enter the timer setting

Press [►/II].

7 Exit MENU mode

Press [MENU].

- The alarm timer is generated for about 30 seconds. The beep stops when any button is pressed during generation.
- The alarm timer setting is canceled at the moment the alarm timer is activated.
- The alarm timer setting is maintained even after this unit is switched off.
- The alarm timer is not activated during recording or USB connection. If the set time period is reached in the middle of recording or USB connection, the alarm timer setting is canceled.
- The sleep timer setting is canceled when this unit is switched off.

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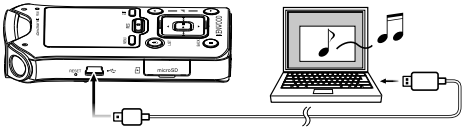
Connecting a PC

Connecting a PC

1 Start up the PC

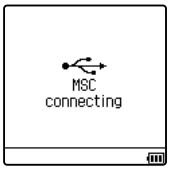
2 Connect a USB cable to the USB port of the PC

3 Connect the USB cable to the USB jack of this unit



USB cable

This unit is connected to the PC with the USB mass storage class connection.



- For the PC system requirements, see <Specifications> (page 76).
- This unit is switched ON automatically at the moment it is connected to the PC.
- When the USB connection, always use a supplied USB cable.
- This unit should be connected directly to the USB port of the PC. We cannot guarantee the operation if this unit is connected via a USB hub.

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Disconnecting this unit from the PC

1 Click the [Safe To Remove Hardware] icon

Display the indicator on the task tray if it is not displayed.

Windows 7/ Vista

Windows XP

2 Click [Safely remove USB Mass Storage Device]

Windows 7

Windows Vista

Windows XP

3 When a message is displayed indicating that the USB device can be removed safely, disconnect the USB cable from this unit

Caution

- Do not disconnect the USB cable during data transfer from the PC. Otherwise, the data in the memory may be destroyed.
- Be sure to perform the USB removal operation on the PC before disconnecting the USB cable from this unit.

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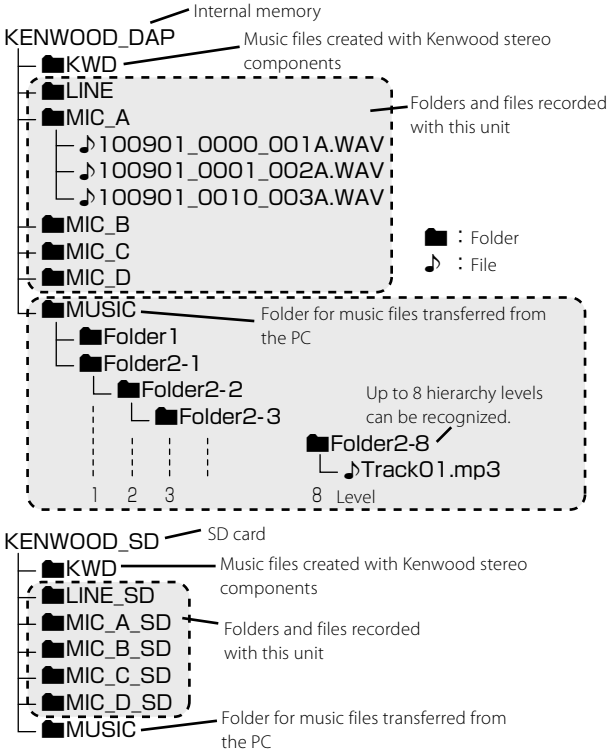
Configurations of folders and files

This unit creates the following folders in the internal memory and SD card and saves files in the folders.
When transferring files from a PC to this unit, the files should be written in accordance with the following folder configuration.



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- About the files and folders in the MUSIC and KWD folders
  - Up to 3,000 folders can be recognized including the MUSIC and KWD folders in the internal memory and SD card.
  - Up to 7,000 files can be recognized in the MUSIC and KWD folders in the internal memory and SD card.
  - Up to 8 hierarchy levels can be recognized.
- About the files in the MIC_A to _D and LINE folders
  - Up to 199 files can be recognized in each folder.
  - If the filename created by this unit is altered, the file cannot be played back on this unit. To prevent this, the recorded files with modified names should be moved to the MUSIC folder.

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Transferring recorded files to a PC

The files recorded with this unit can be stored in a PC.

1 Connect this unit to a PC (page 66)

2 Open the removable disk

Click [Start] – [Computer].

Double click [KENWOOD_DAP] (internal memory) or [removable disk]/ [KENWOOD_SD] (SD card).

3 Open the desired folder of this unit

Double click one of folder names "MIC_A" to "MIC_D" and "LINE."

4 Open the save destination folder of the PC

Click [Start] – [Music].

This is an example for saving the file in the [Music] folder.

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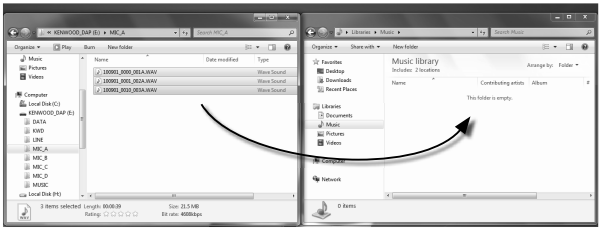
5 Drag & drop or copy & paste the desired files from this unit into the PC



6 Disconnecting this unit from the PC (page 67)

- If the filename created by this unit is altered, the file cannot be played back on this unit. To prevent this, the recorded files with modified names should be moved to the MUSIC folder.

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Capturing Music in PC/ Transferring Music from PC

To play music files as tracks of this Player, first rip music files in the PC.
The obtained music files can then be transferred to this unit.

This unit can play the following 3 types of music files.

• MP3 (*.mp3) : MPEG-1 Audio Layer-3

Sampling frequency	8/ 11.025/ 12/ 16/ 22.05/ 24/ 32/ 44.1/ 48 kHz
Transfer bit rate	32k – 320 kbps
Variable Bit Rate (VBR)	32k – 320 kbps
ID3 tag	Ver. 1.0/1.1/2.2/ 2.3/ 2.4

• WMA (*.wma) : Windows Media Audio

Sampling frequency	22.05/ 32/ 44.1/ 48 kHz
Transfer bit rate	32k – 320 kbps
Variable Bit Rate (VBR)	32k – 320 kbps

• WAV (*.wav) : WAVE file (Linear PCM)

Sampling frequency	44.1/ 48/ 88.2/ 96 kHz
Bit count	16 bit/ 24 bit

First capture music in the PC using ripping software such as the Windows Media Player.

Using Windows Media Player 12

The following is an example of procedure using the Windows Media Player 12.

1. Connect this unit to a PC (page 66)
2. Launch the Windows Media Player
3. Click the [Sync] button on the top
4. Add the music files to be transferred in the Sync List
5. Click the [Start sync] button

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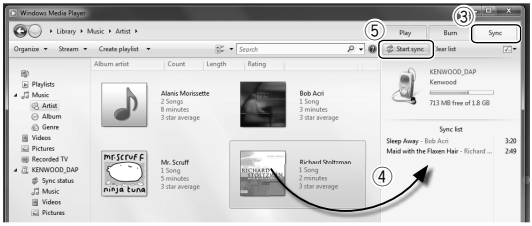

6 Close the Windows Media Player

7 Disconnecting this unit from the PC (page 67)

Data transfer by drag & drop

Open the Windows Explorer and drag & drop the desired file from the PC's hard disk drive to this Player. Copy & paste can also be used for data transfer.

1 Connect this unit to a PC (page 66)

2 Open the removable disk

Click [Start] – [Computer].

Double click [KENWOOD_DAP] (internal memory) or [removable disk]/ [KENWOOD_SD] (SD card).

Continued to next page

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3 Open the "Music" folder

Double click [Music] folder.

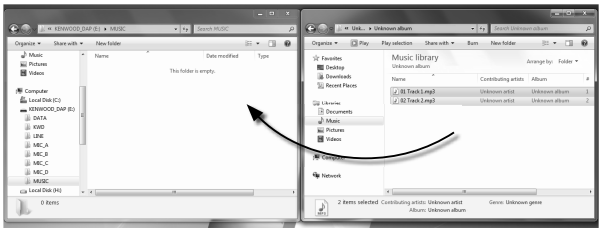
The music files transferred to this unit must always be saved in the MUSIC folder. For details, see <Configurations of folders and files> (page 68).

4 Open the folder storing the desired music file

Click [Start] – [Music].

Select the music file to be transferred or the folder saving it.

5 Drag & drop the music file into the removable disk



6 Disconnecting this unit from the PC (page 67)

- If <DB Auto update> is set to <Manual update>, be sure to update the DB after transferring a recorded file. (page 60)

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Deleting files

The music files transferred from the PC to this unit can be deleted from this unit.

Deleting using the Explorer

1. Connect this unit to a PC (page 66)
2. Open the removable disk
   Click [Start] – [Computer].
   Double click [KENWOOD_DAP] (internal memory) or [removable disk]/ [KENWOOD_SD] (SD card).
3. Open the folder saving the music file(s) to be deleted
4. Drag & drop the desired music file(s) in the recycle bin
5. Disconnecting this unit from the PC (page 67)

- If <DB Auto update> is set to <Manual update>, be sure to update the DB after deleting a recorded file. (page 60)

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Specifications

Built-in flash memory *1
: 2 GB

Headphone output
: 3.5 mm stereo mini jack
: 10 + 10 mW/ 16 Ω

Line output
: 3.5 mm stereo mini jack
: 700 + 700 mV/ 10 kΩ

Line input
: 3.5 mm stereo mini jack
: 90 mV/ 18 kΩ

Microphone input
: 3.5 mm stereo mini jack
: 4 mV/ 2.3 kΩ

Interface
: USB 2.0 Full Speed (USB 1.1 compatible)

Display
: 1.4 inch LCD (120 × 118 dots)

Built-in speaker
: 200 mW

Maximum number of folders
: 3,000 (internal memory and SD card together)

Maximum number of files
: 7,000 (internal memory and SD card together)

Maximum number of hierarchy levels
: 8 level (MUSIC and KWD folders)

Max. recording tracks *2
: Approx. 500 tracks (Internal memory)

Main unit dimensions (W × H × D)
: 52.8 mm×100.2 mm×20.8 mm
(2-1/6 × 3-15/16 × 13/16 inch)

Weight (Net)
: Approx. 87 g (Approx. 0.19 lbs)

Operational Temperature Range
: 5 °C – +35 °C (without condensation)

Battery type
: Built-in Li-ion rechargeable battery

Recharging time
: Approx. 2.5 hours

Battery operation time *3

Continuous play time
WAV (44.1 kHz) : Approx. 31 hours
MP3 (128 kbps) : Approx. 35 hours
WMA (128 kbps) : Approx. 29 hours
(Playback of music files in the internal memory)

Recording time
WAV (96 kHz, 24 bit) : Approx. 16 hours
WAV (44.1 kHz, 16 bit) : Approx. 28 hours
WMA (128 kbps) : Approx. 32 hours
(Built-in microphones & internal memory)

Recording format
: WAV (44.1/48/96 kHz, 16/24 bit, Stereo)
: MP3 (44.1 kHz, 96/128/196/320 kbps, Stereo/ Monaural)

Maximum recording time (without other types of file)

Internal memory/ microSD card (2 GB)
WAV (96 kHz, 24 bit) : Approx. 50 minutes
WAV (48 kHz, 24 bit) : Approx. 1 hour 50 minutes
WAV (44.1 kHz, 24 bit) : Approx. 2 hours
WAV (96 kHz, 16 bit) : Approx. 1 hour 20 minutes
WAV (48 kHz, 16 bit) : Approx. 2 hours 40 minutes
WAV (44.1 kHz, 16 bit) : Approx. 3 hours
MP3 (320 kbps) : Approx. 13 hours 30 minutes
MP3 (192 kbps) : Approx. 22 hours 30 minutes
MP3 (128 kbps) : Approx. 33 hours 50 minutes
MP3 (96 kbps) : Approx. 45 hours

microSDHC card (8 GB)
WAV (96 kHz, 24 bit) : Approx. 3 hours 40 minutes
WAV (48 kHz, 24 bit) : Approx. 7 hours 20 minutes
WAV (44.1 kHz, 24 bit) : Approx. 8 hours 10 minutes
WAV (96 kHz, 16 bit) : Approx. 5 hours 30 minutes
WAV (48 kHz, 16 bit) : Approx. 11 hours 20 minutes

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WAV (44.1 kHz, 16 bit) : Approx. 12 hours 20 minutes
MP3 (320 kbps) : Approx. 55 hours
MP3 (192 kbps) : Approx. 92 hours
MP3 (128 kbps) : Approx. 138 hours
MP3 (96 kbps) : Approx. 184 hours

* The figure shown are standard values of stereo recording.
* During continuous recording, the file is divided every 2 GB.

Playback format

MP3

Extension: .mp3
Sampling rate: 8/ 11.025/ 12/ 16/ 22.05/ 24/ 32/ 44.1/ 48 kHz
Bit rate: 32 - 320 kbps
Variable bit rate *4: 32 - 320 kbps
ID3 tag: ver. 1.0/1.1/2.2/ 2.3/ 2.4

WMA (DRM9 compatible)

Extension: .wma
Sampling rate: 22.05/ 32/ 44.1/ 48 kHz
Bit rate: 32 - 320 kbps
Variable bit rate *4: 32 - 320 kbps
(Not supported by Professional, Lossless, or Voice.)

WAV (Linear PCM)

Extension: .wav
Sampling rate: 44.1/ 48/ 88.2/ 96 kHz
Bit count: 16/ 24 bit

SD card *5

Compatible SD card
: microSDHC™ card (≤ 16 GB)
microSD™ card (≤ 2 GB)
(Data recorded in the SD audio format cannot be played back.)

PC system configuration requirements *6

OS

: Microsoft® Windows® 7/Vista/XP

USB connector

: Compliant to USB 1.1/2.0 standard

- Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

*1 The actual available space may be smaller than specified due to the presence of the system file area.

*2 Assuming that each tracks is in the 128 kbps MP3/ WMA format with playback time of about 4 min.

*3 The continuous play time value is the standard value when the provided headphones are used, the indicator is "OFF", the lighting time is "OFF".
Note that it is not the guaranteed value. The actual time may be shortened depending on the ambient temperature and other operating conditions.
The battery operation time may be shortened with certain SD cards.

*4 Audio data with variable bit rate (VBR) may sometimes go beyond the bit rate range of this unit. In this case, this unit cannot play the audio data.

*5 This unit is capable of recording/playback of SD/ SDHC memory cards complying with the SD or SDHC standard.

*6 All of the above specified PC environment does not guarantee full operation of this unit. Use a PC in which either OS mentioned above is preinstalled. Operation is not guaranteed on a PC running an upgraded OS or a PC assembled by yourself.

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Error messages

Message	Remedy
Can't play	The file being displayed does not exist actually. ➡ If <DB Auto update> is set to <Manual update>, be sure to execute <DB update now> after deleting a file or removing the SD card (page 60).
	The music file with DRM cannot be played after its license has expired. ➡ Check the license and retry transferring a music file with valid license.
	A WMA file with DRM was transferred using the Explorer. ➡ WMA files of the DRM9 format should be transferred using provided Windows Media Player (it is not compatible with the DRM10 format).
Memory Full No Free space	These messages are displayed when the available memory space is insufficient. ➡ Delete files to increase the available space.
File full Can't create anymore files	The maximum number of manageable files has been reached. ➡ Delete unnecessary files. For the maximum number of manageable files, see <Folders and recorded files> (page 30) or <Specifications> (page 76).
Updating Song list Updating File name	The file information in the memory is being updated. Wait until the updating finishes. Updating may take time if there are large number of files.
Please insert microSD card Can't identify microSD card Please insert again	The microSD card is not inserted properly. ➡Switch this unit off and re-insert the microSD card correctly.
	The microSD card is formatted with a file system incompatible with this unit. ➡ Format the microSD card in this unit (page 57).
Writing speed is slow	This message is displayed when the available space in the internal memory or microSD card is fragmented into small spaces. ➡ Format the internal memory or microSD card (page 57).
	Certain microSD cards cannot offer a stable recording rate that is indispensable for recording with high audio quality. ➡ Use a high-speed type microSD card of Class 4 or better.
Low battery Please charge	The battery has no remaining capacity. ➡ Recharge the battery (page 17). ➡ Supply external power from the USB port of a PC (page 18).

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Message	Remedy
Please check the connection of line input Please check the connection of external microphone	The connection cord was disconnected during recording. ➡ Check the cord connection and reconnect it as required.

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Troubleshooting

In the case of a trouble such as the impossibility of switching this unit ON, spontaneous power shutdown or erroneous display, press the Reset button (page 8).
For details, refer to the support information in our website by visiting:
http://www.kenwood.com/

Symptom	Remedy
Power cannot be switched ON or pressing a button does not start an operation.	The hold function is set to "ALL." Cancel the HOLD function with the HOLD switch on this unit (page 19).
	The battery is nearly exhausted. Recharge it if it is rechargeable or replace it if it is an alkaline battery. (page 17)
	This unit is being connected to the PC. This unit is inoperable when it is connected to the PC in the storage mode.
The remaining battery power drops soon after recharging.	The rechargeable battery is degraded. Replace it with a brand-new rechargeable battery. For the battery replacement, contact your nearest Kenwood service agent.
Audio is not heard.	Headphones are connected improperly. Connect headphones correctly to this unit.
Battery cannot be recharged.	USB cable is connected improperly. Check the connections on both this unit and PC sides.
	The ambient temperature is outside the operating temperature range. The battery should be recharged within the operating temperature range. (page 76)
PC does not recognize this unit.	USB cable is defective. Purchase and use another USB cable.
	This unit is connected to the PC improperly. Check the connection between this unit and PC.

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Symptom	Remedy
Recording standby cannot be entered. Recording is impossible.	The hold function is set to "REC." Cancel the HOLD function with the HOLD switch on this unit (page 19).
	If the music starts to play, press [■/BACK] to stop it. [REC] button: • Press during stop mode to enter the recording standby mode. • Press during recording standby to start recording.
Recording from a line input is impossible.	A plug is connected to the microphone input. Do not connect anything to the microphone input terminal. (page 34)
Recording from an external microphone is impossible.	The PLUG IN POWER switch is set to OFF. A condenser microphone with the plug-in power compatibility needs an external power supply. Set the PLUG IN POWER switch to ON when using such a microphone. (page 33)
	A plug is connected to the line input. Do not connect anything to the line input terminal. (page 33)
Recording from the built-in microphones is impossible.	A plug is connected to the line input or microphone input. Do not connect anything to the line input and microphone input terminals.
Only the left (Lch) audio of the external microphone can be recorded.	A monaural microphone is connected. When a monaural microphone is connected, the audio is recorded only in the Left channel.

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Glossary

DB (Database):
Function for creating tag information of music files and basic information on their filenames so that they can be selected from the list screen.

DRM (Digital Rights Management):
Technology for protecting the copyright of digital audio and video data by limiting the number of duplications.

microSD card:
This memory card has a size of about 1/4 the SD card and retains the compliance to the SD card standard.

microSDHC card:
This memory card complies with the upper standard of the microSD card and has capacity of 4 GB or more.

MP3:
An international data compression standard of MPEG, which is a working group in ISO (International Standardization Organization). It offers compression rates between about 1/10 and 1/12.

MSC (Mass Storage Class):
USB device type that is classified as a large-capacity storage device, the examples of which include a hard disk drive and CD drive.
When an MSC device is connected to a PC, the PC recognizes the device just like a removable disk, with which files can be exchanged easily using the standard drag & drop operation.

USB:
This is a standard for connection between a PC and the peripherals.
This unit is compliant to the USB 1.1 and 2.0 standards.

Tag data:
Information on each audio file, including the music title, artist name, album name and genre name.

WMA (Windows Media Audio):
An audio compressed encoding format developed by Microsoft Corporation.
Also the extension used with audio files created using WMA.

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- microSDHC logo is a trademark.

Other system names and product names are also trademarks or registered trademarks of their respective developers. Note that the "™" and "®" markings are omitted in the text of this manual.

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)

Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.
Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.
Contact your local authority for details in locating a recycle facility nearest to you.
Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Pb

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

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