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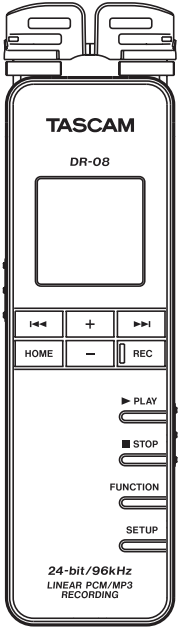
TASCAM
TEAC PROFESSIONAL

DR-08

Linear PCM Recorder



This device has a serial number located on the bottom panel. Please record it and retain it for your records.
Serial number:

_____

OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.

- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

Cautions about Batteries

This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/–) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose of batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.

IMPORTANT SAFETY INSTRUCTIONS

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.
CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

FOR U.S.A.

TO THE USER

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

a) Reorient or relocate the receiving antenna.
b) Increase the separation between the equipment and receiver.
c) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
d) Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

产品有毒有害物质或元素的名称及含量

机种：DR-08		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	PCB Assy部份	×	○	○	○	○	○
3	线材部份	○	○	○	○	○	○
4	附属品部份	×	○	○	○	○	○
7	SEAL部份	○	○	○	○	○	○
8	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含有量均在 SJ/T11363-2006 标准规定的限量要求以下。
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（针对现在代替技术困难的电子部品及合金中的铅 ）

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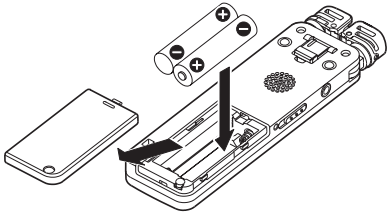
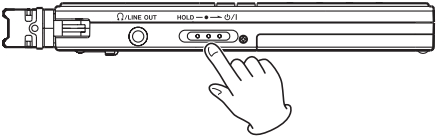
In this guide, we will show you how to record and playback using this unit.

When the unit is shipped from the factory, a microSD card has already been installed and the recording format has been set to 16-bit, 44.1 kHz PCM. You can change the recording format to increase the quality of recording further or to make longer recording possible. For details, see “Setting the recording quality” on page 43.

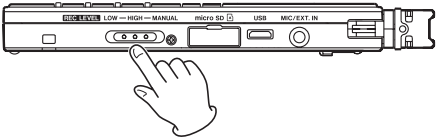
1 Insert batteries into the battery compartment on the back of the unit. Align them with the +/– indications in the compartment.



2 Turn the power ON. Slide the ⏻/❙/HOLD switch on the left side of the unit toward ⏻/❙ until the unit starts up. Release the switch when the unit starts.



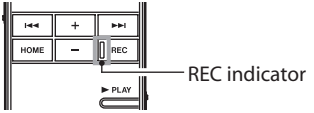
3 Set the REC LEVEL switch on the right side of the unit to LOW.



If the volume of the sound source is low, setting this switch to HIGH might improve the recording. Moreover, when recording music, setting the recording level manually could improve the recording quality even

more. For details, see “Adjusting the input level” on page 55.

4 Press the REC key to start recording. The REC indicator lights during recording.

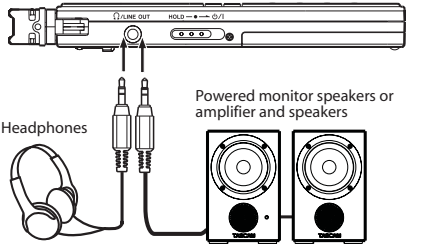


5 Press the ■ STOP key to stop recording.

6 Press the ► PLAY key to play back the recording that you just made.

To listen using headphones or an amplification system with speakers, connect the equipment to the ∩/LINE OUT jack on the left side of the unit.

To listen using the unit’s built-in speaker, turn the speaker ON. For details, see “Using the built-in speaker to monitor playback” on page 36.



7 Use the + and – keys to adjust the playback volume.

8 Press the ■ STOP key to stop playback.

NOTE

If you have multiple recordings, use the I◄◄ and ►►I keys to select the file that you want to playback.

Thank you very much for purchasing the TASCAM DR-08 Linear PCM Recorder. We hope that you will enjoy using this recorder for many years to come. Please read this Owner's Manual carefully in order to maximize your use of all the unit's features.

Please keep a copy of this manual in a safe place for future reference. You can also download a digital copy of this manual from our website (www.tascam.com).

Features

- 24-bit, 96-kHz linear PCM and MP3 recording
- Built-in high-performance stereo microphone
- Microphone angle can be changed
  - Closed for recording interviews and other situations where the orientation is important
  - Open for recording music and other situations where width and stereo image is important
  - Open and rotated for recording meetings and other situations where sound comes from multiple directions.
- Built-in speaker
- Playback speed can be adjusted in a range from half to double without changing pitch
- Automatic starting and stopping possible in response to input signals
- File splitting manually possible (PCM files only)
- Auto gain control and sound enhancement during recording (REC EQ function)
- Manual recording level adjustment possible in addition to two levels of automatic gain control
- Noise cancellation and sound quality enhancement during playback (PLAY EQ function)
- Stand for tabletop recording
- Pre-record function allows recording the 2 seconds before the record button was pressed
- Interval repeat playback (A-B repeat)

- Stereo mini-jack for external input (supports mics that require plug-in power)
- Can be powered by 2 AAA batteries or USB bus power
- Timer recording
- Jump back playback function can be set to 1–10, 20 or 30 seconds
- USB 2.0 jack (Micro USB)
- microSD/microSDHC cards used as recording media
- 96 x 96 pixel LCD with backlight
- Playlist function allows files to be added to a list for playback

Product components

This product includes the following.

- Main unit.....1
- microSD card installed in unit 1
- AAA alkaline batteries.....2
- Micro USB cable (80 cm).....1
- Warranty card.....1
- Owner's Manual (this document) 1

Please open the packaging carefully to avoid damaging the unit. Save the box and packaging materials for shipping at a future date.

Please contact the store where you purchased this unit or TASCAM if any of these accessories are missing or have been damaged during transportation.

Conventions used in this manual

The following conventions are used in this manual.

- Keys, jacks and other parts of this unit and other equipment are indicated in a bold font like this: **HOME** key.
- Characters that appear on the display are shown like this: ON
- “microSD memory card” is sometimes abbreviated as “microSD card.”
- Additional information is provided as necessary as tips, notes and cautions.

TIP

These are hints about how the unit can be used.

NOTE

These provide additional explanations and special situations, for example.

CAUTION

These instructions should be followed to avoid injury, damage to equipment or loss of data.

Intellectual property rights

- TASCAM is a trademark of TEAC Corporation, registered in the U.S. and other countries.
- microSDHC Logo is a trademark of SD-3C, LLC.

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About microSD cards

This unit uses microSD cards for recording and playback. microSD cards that are 64 MB - 2 GB and microSDHC cards that are 4 GB - 32 GB in size can be used. A list of microSD cards that have been tested with this unit can be found on the TASCAM web site (www.tascam.com).

■ Precautions for use

microSD cards are delicate media. In order to avoid damaging a card or the card slot, please take the following precautions when handling them.

- Do not leave them in extremely hot or cold places.
- Do not leave them in extremely humid places.
- Do not let them get wet.
- Do not put things on top of them or twist them.
- Do not hit them.

Precautions for placement

- The environmental temperature operation range of this unit is 0–40° C (32–104° F).
- Do not install in the following types of places. Doing so could degrade the sound quality and/or cause malfunctions.
  - Places with significant vibrations or that are otherwise unstable
  - Near windows or other places exposed to direct sunlight
  - Near heaters or other extremely hot places
  - Extremely cold places
  - Places with bad ventilation or high humidity

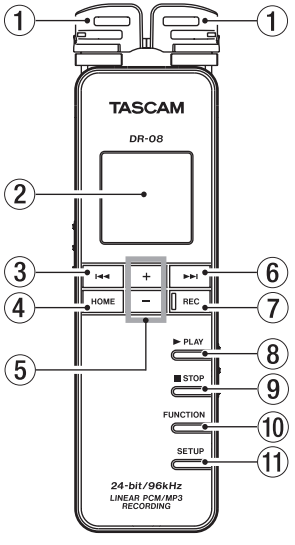
Beware of condensation

If the unit is moved from a cold to a warm place, or used after a sudden temperature change, there is a danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using.

Cleaning the unit

Use a dry soft cloth to wipe the unit clean. Do not clean the unit with a chemically treated cloth or substances such as benzene, thinner and alcohol because they might cause damage to the surface of the unit.

Top panel



① **Built-in stereo microphone**
This is a stereo electret condenser microphone. When a separate microphone or other external device is connected to the **MIC/EXT. IN** jack on the right panel, the input from that external microphone/device input is given priority, and the built-in stereo microphone is disabled.

② **Display**
This shows various types of information.

③ **I◄◄ key**
Press this key during playback or when paused during playback to return to the beginning of the recording.
Press this key when stopped at the beginning of a recording to skip to the previous recording.
Press and hold to search backward.
Press when a menu screen is open to return to the previous screen.
On the FILE/FOLDER screen, press to move up a level.

This operates as a function key on some menus. (The function is shown at the bottom of the screen.)

When in record standby, this key adjusts the recording level.

④ **HOME keys**

Press to open the Home Screen.

When the Home Screen is open, press to return to the previous screen.

⑤ **+/– keys**

Use these to adjust the output level during playback.

When a setting screen is open, use these keys to select files, folders and other items, to turn functions ON and OFF, and to set split points in files.

These operate as function keys on some menus. (The functions are shown at the bottom of the screen.)

⑥ **►►I key**

During playback and when stopped, press this key to skip to the next file. Press and hold to search forward. When a menu screen is open, press this key to open menus and folders, as well as to move between setting items and confirm setting values.

This operates as a function key on some menus. (The function is shown at the bottom of the screen.)

When in record standby, this key adjusts the recording level.

⑦ **REC key and indicator**

Press when stopped to start recording if the recording level setting switch is set to **HIGH** or **LOW** (see item 17 below). The **REC** indicator lights.

Press when stopped to start recording standby if the recording level setting switch is set to **MANUAL**. The **REC** indicator blinks when in recording standby. Press when in recording standby to start recording. Press and hold

when stopped to start pre-record standby. Press during recording to create a new track and continue recording without interruption (track increment).

⑧ ► PLAY key

Press when stopped to start playback. Press during playback to jump back a few seconds and continue playback.

⑨ ■ STOP key

Press to end recording standby or stop playback or recording at the current position.

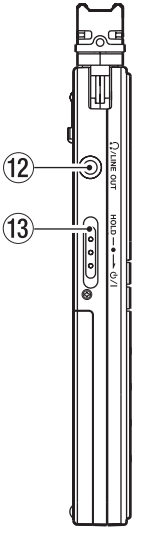
⑩ FUNCTION key

Press when the Home Screen is open to open the Function menu. Press when the Function menu is open to open the Home Screen.

⑪ SETUP key

Press when the Home Screen is open to open the Setup menu. Press when the Setup menu is open to open the Home Screen.

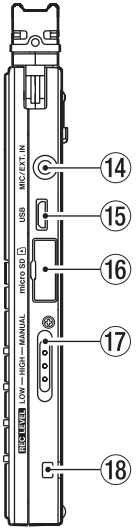
Left side panel



⑫ **/LINE OUT jack**
Connect headphones or the line input jack of an external device using a stereo mini-jack cable.

⑬ **/ /HOLD switch**
Turn the power ON/OFF. Set the switch to the **HOLD** position to activate the hold function, which prevents accidental operation. When set to **HOLD**, none of the keys can be used.

Right side panel



⑭ **MIC/EXT. IN jack**
This stereo mini-jack is an external microphone/device input jack that can provide plug-in power to mics that need it.

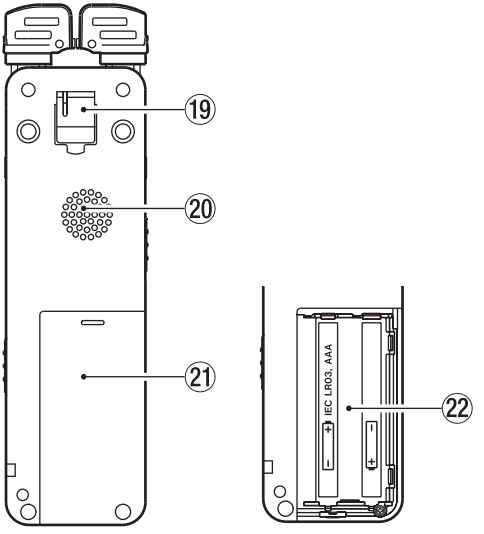
⑮ **Micro USB port**
Use the included Micro USB cable to connect this USB port to a computer.

⑯ **microSD card slot**
Insert a microSD card here.

⑰ **REC LEVEL switch**
Use to set the recording level. When set to **LOW** or **HIGH**, the auto gain control function is activated, and the unit's recording level is adjusted automatically. When set to **MANUAL**, use the ►►I and I◄◄ keys on the top panel to set the recording level manually.

⑱ **Strap holder**
Attach a strap here.

Bottom panel



⑲ **Stand**

Use this stand to raise the unit slightly when recording on a tabletop.

⑳ **Mono speaker**

Use this speaker for monitoring.

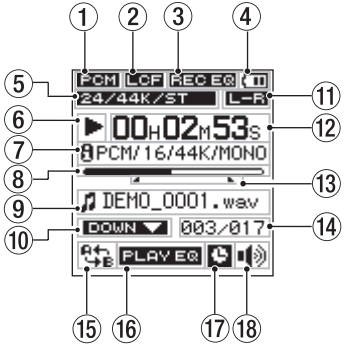
Sound is not output by this speaker when recording or in recording standby, when headphones or a monitoring system is connected to the unit, or when the speaker has been turned OFF in the unit settings.

㉑ **Battery compartment cover**

㉒ **Battery compartment**

Put 2 AAA batteries into this compartment to power the unit.

Home Screen



① **File format**
This shows the recording file format.
PCM : PCM format
MP3 : MP3 format

② **Low-cut filter status**
Shows the low cut filter status is shown here.
LCF indicator shown: Low-cut filter ON
LCF indicator not shown: Low-cut filter OFF

③ **Status of sound quality enhancement during recording**
This shows the status of the sound quality enhancement function that can be used when recording.
REC EQ indicator shown: Sound quality enhancement during recording is ON
REC EQ indicator not shown: Sound quality enhancement during recording is OFF

④ **Power supply status**
A battery icon appears when the unit is operating on battery power. The amount of remaining battery charge is indicated by the number of bars (, or). When there are no bars, and the icon blinks, the batteries are almost dead and the unit's power will automatically change to off soon.

When using USB bus power, ⇔ is shown.

⑤ **File mode display**

This shows the recording file format.

PCM: Shows the quantization bit rate, sampling frequency and whether stereo or monaural.

MP3: Shows the bit-rate and whether stereo or monaural.

⑥ **Recorder operation status**

The recorder operation status is indicated by one of the following icons.

Icon	Meaning
■	Stopped
❚❚	Paused
►	Playing back
►►	Searching forward
◄◄	Searching backward
►►I	Skipping to the start of the next file
I◄◄	Skipping to the start of the current or previous file

⑦ **Playback file format**

This shows the format of the currently selected file. Information about the file format of the currently selected file is shown after the 🖫 icon. When stopped, the possible recording time of the card is shown.

⑧ **Playback position bar**

This bar shows the current playback position. As playback progresses, the bar extends from the left.

⑨ **File information**

The name of the file being played back or tag information is shown. If an MP3 file has ID3 tag information, it is shown.

⑩ **Playback speed status**

One of the following icons is shown depending on whether the playback speed function is ON or OFF and the playback speed setting.

Display	Meaning
DOWN ▼	50–90%
No indicator	100%
UP ▲	110–200%

⑪ **Microphone left-right position setting**

This shows the current microphone left-right position setting

L–R : This is shown when the left microphone is input to the left channel and the right microphone is input to the right channel.

R–L : This is shown when the left microphone is input to the right channel and the right microphone is input to the left channel.

⑫ **Elapsed time**

This shows the elapsed time of the file being played (hours: minutes: seconds).

⑬ **Repeat playback A (starting) and B (ending) point status**

This shows this setting status of starting and ending points for A-B repeat playback.

When a starting point is set, ▟ is shown below the playback position bar at the corresponding position.

When an ending point is set, ▙ is shown below the playback position bar at the corresponding position.

⑭ **Playback file number/total number of files**

The total number of files in the playback area and the current file number are shown

⑮ **Repeat playback and playback area setting status**

One of the following icons is shown depending on the setting.

A↻B : A-B repeat playback

: Playback area set to ALL file

: Playback area set to FOLDER

: Playback area set to PLAYLIST

⑯ **Status of sound quality enhancement during playback**

The status of the sound quality enhancement function during playback is shown.

PLAY EQ indicator shown: ON

PLAY EQ indicator not shown: OFF

⑰ **Timer setting status**

This icon appears when the timer is set for recording.

⑱ **Built-in speaker setting status**

This shows whether the built-in speaker is ON or OFF.

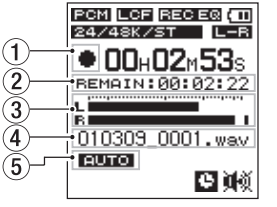
: The speaker is set to ON.

: The speaker is set to OFF.

NOTE

Even if the SPEAKER setting is ON, no sound is output from the speaker when recording or in recording standby, or when headphones or a monitoring system is connected.

Recording Screen



① **Recorder operation status**

This icon shows the recorder operation status.

Icon	Meaning
■	Stopped or in standby
●	Recording

② **Remaining recording time**

This shows the remaining recording time, which depends on the remaining card capacity and the ENCODING setting.

③ **Level meters**

This shows the input sound levels.

④ **File name**
The name that is automatically given to the file being recorded is shown

⑤ **Auto record function status**
When the auto record function is ON, the AUTO icon appears.

Menu structure

Press the **FUNCTION** key to open the FUNCTION menu, and press the **SETUP** key to open the SETUP menu. Their menu items are as follows.

FUNCTION menu

REPEAT	Enable A-B repeat playback.
FILE/FOLDER	Work with files and folders on the card.
PLAY SPEED	Set the playback speed.
SPLIT FILE	Divide files.
DELETE FILE	Delete files.

SETUP menu

REC	Make the following settings related to recording. • ENCODING (recording quality) • EXT. INPUT (switch to external input) • LOW CUT (low-cut filter) • REC EQ (recording quality adjustment settings) • AUTO REC (automatic recording settings)
PLAY	Make the following settings related to playback. • MODE (playback area/repeat area) • PLAY EQ (playback sound quality enhancement) • JUMP BACK (jump back time)
TIMER	Make settings related to timer recording.
SPEAKER	Turn the built-in speaker ON/OFF.
SYSTEM	Make the following settings. • LR SWAP (left-right setting for built-in mic) • DATE/TIME • AUTO POWER OFF • BACKLIGHT • BATTERY TYPE • STEALTH MODE (backlight off) • CONTRAST (display contrast) • FORMAT • INFORMATION

Menu operation basics

FUNCTION key	Opens the FUNCTION menu. When the FUNCTION menu is open, press to return to the Home Screen.
SETUP key	Opens the SETUP menu. When the SETUP menu is open, press to return to the Home Screen.

►►I key	Depending on the screen, this key has the following functions. • Advances to the next menu. • Confirms a setting. • On the FILE/FOLDER screen, opens a folder. • On the TIMER START/END screen and the DATE/TIME screen, moves to the next digit. • On the repeat screen, sets the repeat end point.
I◄◄ key	Depending on the screen, this key has the following functions. • Returns to the previous screen. • On the repeat screen, sets the repeat start point.
+/– keys	Select items and change setting values.
HOME key	Opens the Home Screen. When, the Home Screen is open, press to return to the previous screen.

The functions of the I◄◄, ►►I, **+** and **–** keys are shown at the bottom of the screen. The assignments of the keys differ according to the screen.

Back: Return to the previous screen.
Enter: Open the sub menu or confirm the setting.
Next: Move the cursor to the next position.
Yes: Respond "Yes" to a confirmation message.
No: Respond "No" to a confirmation message.
⬍: Change the value by using the **+**/**–** keys.
Exec.: Execute the selected operation.
A point: Set the current position to A point.
B point: Set the current position to B point.
ON/OFF: Turn the selected function on and off.

Preparing the power

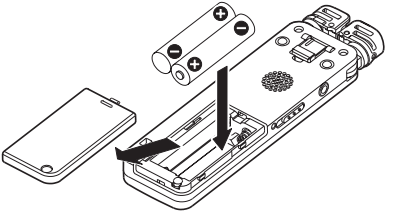
About the power supply

This unit can be powered by 2 AAA batteries or USB bus power.

This unit can use AAA alkaline batteries or AAA nickel metal hydride batteries.

Using AAA batteries

Slide off the battery compartment cover on the bottom panel of this unit, and insert 2 AAA batteries into the battery compartment according to the +/– indications.



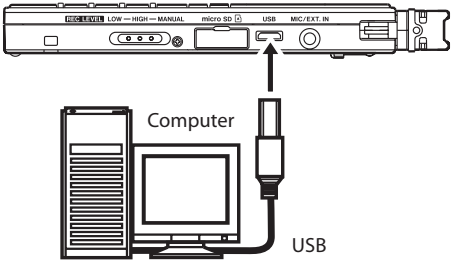
When using AAA batteries, set the battery type so that the unit can accurately display the remaining battery charge and determine the necessary minimum remaining charge for operation. (See “Setting the battery type” on page 90.)

CAUTION

- *Manganese AAA batteries cannot be used.*
- *This unit cannot recharge AAA nickel metal hydride (NiMH) batteries. Use a commercially-available battery recharger to recharge NiMH batteries.*
- *The included alkaline batteries are provided to allow confirmation of the unit’s operation, and are short-lived.*

Using USB bus power

Connect this unit and a computer using the included USB cable as shown in the illustration.



If you connect the unit by USB when its power is ON, or if you turn the unit's power ON when it is already connected by USB, a screen appears on this unit's display to let you choose whether you want to operate the unit using USB bus power or to connect the unit with the computer by USB.

Press the ◀◀ (No) key.

Power is now supplied through the USB bus port. The Home Screen opens automatically.

NOTE

When power is available from both batteries and by USB, power is supplied by the USB connection (USB bus power prioritized).

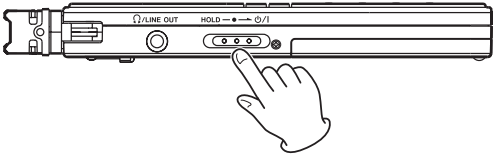
Turning the power on and off

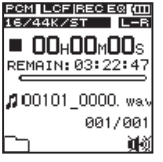
CAUTION

When switching the unit on and off, we suggest that you turn down the volume of any speakers or amplifiers connected to the unit. Also, do not wear headphones connected to the unit when switching power on or off. This will avoid damage to speakers and possible harm to your hearing.

Turning the power on

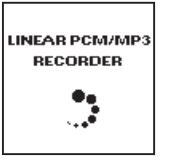
When the power is off, slide the ⏻/ I/**HOLD** switch toward ⏻/ I. When the startup screen with TASCAM DR-08 appears, release the switch. The unit starts up and the Home Screen opens.





Turning the power off

When the power is ON, slide the ⏻/ I/**HOLD** switch toward ⏻/ I. When the following shutdown screen appears, release the switch.



After the unit completes shutting down, the unit's power is set to off.

CAUTION

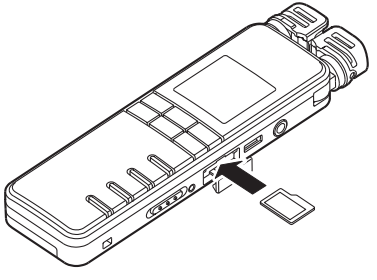
Always use the ⏻/ I/**HOLD** *switch to put the unit power off. All recording data and settings, for example, are lost and cannot be recovered if the power supply is suddenly interrupted. When the power is ON, do not remove the batteries, or disconnect the USB cable when using USB bus power.*

Inserting and removing microSD cards

Inserting a card

1 **Open the microSD card slot cover on the right side panel of the unit.**

2 **Insert the microSD card in the direction of the illustration until it clicks into place.**



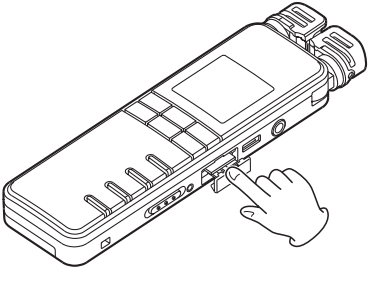
NOTE

When this unit is purchased new, a microSD card is already inserted in the microSD card slot. You can use this microSD card as it is for recording and playback. There is no need to reinsert it.

Ejecting a card

1 **Open the microSD card slot cover.**

2 **Push the microSD card gently, and it will come out of the unit slightly and can be pulled out.**



CAUTION

- *When connected with a computer by USB, do not remove the microSD card from the unit.*
- *microSD cards that are compliant with microSD/ microSDHC standards can be used.*
- *A list of microSD cards that have been verified for use with this unit can be found on the TASCAM website (http://www.tascam.com/).*

Preparing a microSD card for use

A microSD card must be formatted by this unit to be used with the unit.

1 Confirm that the microSD card is inserted and turn the power ON.

2 If a new card or a card that has been formatted by a device other than this unit has been inserted, the following pop-up message appears.

3 Press the ►►I (Exec.) key to start formatting the card.

CAUTION

Formatting erases all data on the card.

4 When formatting is complete, the Home Screen opens.

CAUTION

When formatting, confirm that the remaining battery charge is sufficient or use USB bus power.

You can also format the card at any time with this unit. (See “Reformatting the microSD card” on page 94.)

Setting the date and time

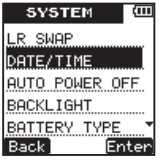
This unit adds date and time information to recorded files using its internal clock. Timer recording also uses the internal clock.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** SYSTEM **menu item.**

3 **Press the ►►I (**Enter**) key to open the** SYSTEM **menu screen.**

4 **Use the +/– keys to select the** DATE/TIME **item.**



5 **Press the ►►I (**Enter**) key to open the** DATE/TIME **setting screen.**

6 **Press the ►►I (**Next**) key to cycle through the setting items in the following order: year, month, day, hour, minute, second.**

Use the +/– keys to set each item.

7 **Press the REC key to confirm the date and time setting that the unit stores and uses.**

The following pop-up message appears.

8 After the pop-up confirmation message disappears, press the HOME key to return to the Home Screen.

CAUTION

The date and time setting is only retained for a few minutes if there is no power supplied to the unit by batteries or USB bus power. When using batteries, we recommend that you replace them before they are completely dead.

Using the built-in speaker to monitor playback

To use this unit's built-in speaker to listen to a recording that is playing back, in the SETUP menu set the SPEAKER setting to ON.

1 Press the SETUP key to open the SETUP screen.

2 Use the +/– keys to select the SPEAKER menu item.

3 Press the ►►I (Enter) key to open the SPEAKER setting screen.

4 Use the +/– keys to set it to ON.

5 Press the ►►I (Enter) key to confirm the setting and the following pop-up message appears on the display briefly, and then the SPEAKER setting screen is shown again.

6 When you have finished making the setting, press the HOME key to return to the Home Screen.

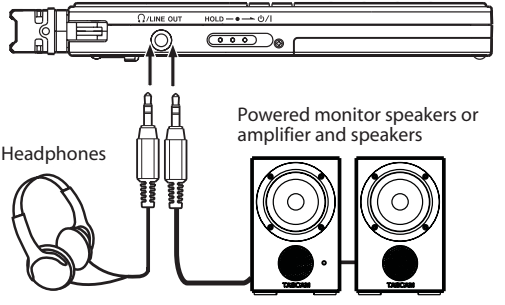
NOTE

Even if the SPEAKER setting is ON, no sound is output from the speaker when recording or in recording standby, or when headphones or a monitoring system is connected.

Connecting monitoring equipment

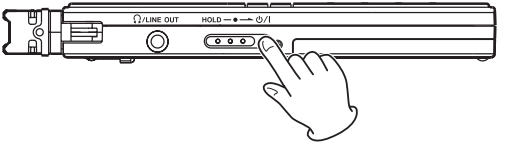
To monitor with headphones, connect them to the **/LINE OUT** jack.

To monitor with an external monitoring system (powered monitor speakers or an amplifier and speakers), connect it to the **/LINE OUT** jack.



Preventing accidental operation with the hold function

To prevent accidental operation, set the **/ I / HOLD** switch to **HOLD** to activate the hold function. When hold is activated, all keys are disabled.



Using the built-in microphone

This unit's built-in microphones can be adjusted, allowing the angles of the microphones to be changed. By changing the position of the built-in stereo microphone according to recording conditions, the unit can be set to record in wide

stereo for music or oriented with a more focused field for interviews, for example.

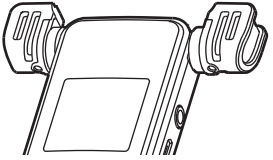
Setting the mics to capture localized sound

Close the stereo microphone.

Set this way, recording is possible in a relatively narrow field and is useful for interviews and similar situations.

Setting the mics to record a wide stereo sound

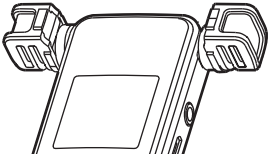
Spread the stereo microphone to the left and right.



Set this way, the two microphones are spread widely left and right, and recording is possible with a strong stereo field that is good for music, for example.

Setting the microphone to record nearby sounds

Spread the two microphones to the left and to the right and then rotate them.



When placed on a table with the top panel up and viewed from above, the microphones are pointed up, making this setting useful for recording meetings and other situations where you want to record sounds from all around the unit.

Swapping the left-right channels of the built-in microphone pair

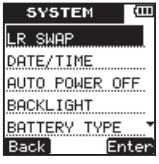
Depending on the angles at which the microphones are set, the recording channels of the left and right microphones can be swapped. When the microphone pair is open, the left microphone should be set to the left channel and the right microphone should be set to the right channel. When the microphone pair is closed, the left microphone should be set to the right channel and the right microphone should be set to the left channel.

1 **Press the SETUP key to open the** SETUP **menu**

2 **Use the + and – keys to select the** SYSTEM **menu item.**

3 **Press the ►►I (**Enter**) key to open the** SYSTEM **menu screen.**

4 **Use the + and – keys to select the** LR SWAP **menu item.**



5 **Press the ►►I (Enter) key to open the LR SWAP setting screen.**

6 **Use the + and – keys to set the item to L-R or R-L according to the mic position.**

7 **Press the ►►I (Enter) to confirm the setting and temporarily show the setting, and then return to the LR SWAP setting screen.**

8 **When you have finished making the setting, press the HOME to return to the Home Screen.**

Microphone position detection

The following pop-up message appears automatically whenever the left microphone is opened or closed. If only the right microphone is opened or closed, it does not appear.

Press the ►►I (Yes) key to change the setting.

Press the I◄◄ (No) key to leave the setting as it is.

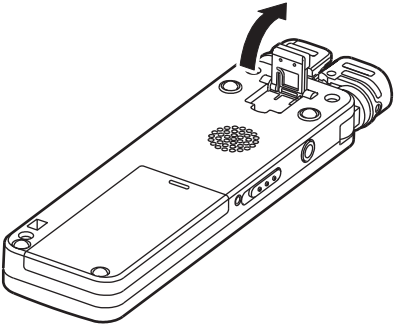
CAUTION

- *When you change the microphone angle setting and the pop-up message appears, you must press the ►►I (Yes) key to change the L–R setting, press the I◄◄ (No) key to keep this setting as is, or restore the previous microphone angle to close the pop-up message before you can begin recording.*
- *The pop-up message does not appear if you change the microphone position when recording or in pre-record mode. If necessary, use the LR SWAP setting from the SYSTEM menu to switch the setting (see the previous page).*

Using the stand

The folding stand included on the bottom panel of this unit can be used to raise the top of the unit slightly when placed on a flat surface.

By using this stand when the unit is placed on a table or similar surface, the amount of contact with that surface is reduced, decreasing vibration noise and allowing clearer recording.



In addition to recording with the built-in microphone, this unit can also record the signal from an external microphone, the headphone jack of a portable CD player or other external audio device.

Making recording settings

Setting the recording quality

Before starting recording, set the audio file format.

In addition to choosing stereo or monaural, set the audio file format to PCM or MP3 to suit your purposes, including whether you want to prioritize sound quality or recording time.

NOTE

- *PCM formats allow recording at higher quality than MP3 formats.*
- *MP3 formats allow recording for a longer time than PCM formats.*
- *With MP3 formats, higher bit-rates allow better recording quality.*
- *For information about recording times, see "Recording formats and times" on page 62.*

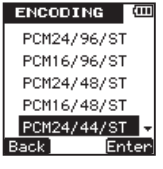
1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the REC menu item.

3 Press the ►►I (Enter) key to open the REC menu screen.

4 Use the +/– keys to select the ENCODING item.

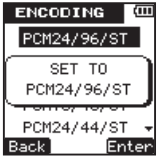
5 Press the ►►I (Enter) key to open the EN-CODING setting screen.



6 Use the +/– keys to set the recording quality (encoding format) to one of the following. (The default value is PCM16/44/ST.)

Display	Format (bit rate), sampling frequency, number of channels
PCM24/96/ST	PCM, 24-bit, 96 kHz, stereo
PCM16/96/ST	PCM, 16-bit, 96 kHz, stereo
PCM24/48/ST	PCM, 24-bit, 48 kHz, stereo
PCM16/48/ST	PCM, 16-bit, 48 kHz, stereo
PCM24/44/ST	PCM, 24-bit, 44.1 kHz, stereo
PCM16/44/ST	PCM, 16-bit, 44.1 kHz, stereo
PCM16/44/MO	PCM, 16-bit, 44.1 kHz, monaural
MP3/320/ST	MP3, 320 kbps, stereo
MP3/192/ST	MP3, 192 kbps, stereo
MP3/128/ST	MP3, 128 kbps, stereo
MP3/64/ST	MP3, 64 kbps, stereo
MP3/160/MO	MP3, 160 kbps, monaural
MP3/96/MO	MP3, 96 kbps, monaural
MP3/64/MO	MP3, 64 kbps, monaural
MP3/32/MO	MP3, 32 kbps, monaural

7 **Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the ENCODING menu screen.**



8 **When you have finished making the setting, press the HOME key to return to the Home Screen.**

Setting the built-in stereo microphone for input

The input source for this unit can be set to the built-in stereo microphone, external microphone input or external device input. When nothing is connected to the **MIC/EXT. IN** jack on the right side panel of the unit, the built-in microphone is set as the input.

Setting external input

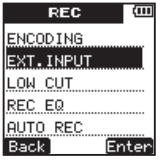
When an external microphone, the headphone jack of a portable CD player or another external audio device is connected to the **MIC/EXT. IN** jack, the external input is set as the input source. Make the following setting according to the type of connected device.

1 **Press the SETUP key to open the SETUP menu screen.**

2 **Use the +/– keys to select the REC menu item.**

3 Press the ►►I (Enter) key to open the REC menu screen.

4 Use the +/– keys to select the EXT.INPUT item.



5 Press the ►►I (Enter) key to open the EXT.INPUT setting screen.

6 Use the +/– keys to select one of the following. (The default value is LINE.)

Display	Input source
LINE	External audio device (the headphone jack of a portable CD player, etc.)
EXT. MIC	External microphone

7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly and then return to the EXT.INPUT screen.

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

NOTE

In some cases, when connected to the LINE output of a device the volume cannot be adjusted and might be too loud. In such cases, use the headphone output jack or another output that can have its level adjusted.

Reducing low-frequency noise when recording

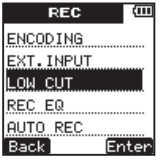
This unit has a low-cut filter that can be used to reduce low frequencies during recording for a clearer sound. Unnecessary noise from the sounds of air-conditioning and wind during outdoor recording, for example, can be reduced using the low-cut filter. Set the filter to one of three levels according to the recording conditions.

1 **Press the SETUP key to open the** SETUP **menu screen.**

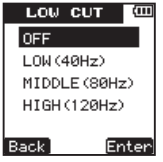
2 **Use the +/– keys to select the** REC **menu item.**

3 **Press the ►►I (**Enter**) key to open the** REC **menu screen.**

4 **Use the +/– keys to select the** LOW CUT **item.**



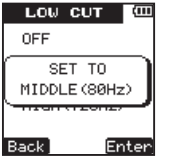
5 **Press the ►►I (**Enter**) key to open the** LOW CUT **setting screen.**



6 **Use the +/– keys to select one of the following. (The default value is** LOW (40Hz)**.)**

Display	Low-cut filter effect
OFF	Low-cut filter OFF
LOW (40Hz)	Low-cut filter below 40 Hz
MIDDLE (80Hz)	Low-cut filter below 80 Hz
HIGH (120Hz)	Low-cut filter below 120 Hz

7 **Press the ►►I (**Enter**) key to confirm the setting and show a pop-up with the setting briefly, and then return to the** LOW CUT **menu screen.**



8 **When you have finished making the setting, press the HOME key to return to the Home Screen.**

Setting the recording quality when recording (REC EQ)

Recording quality can be enhanced according to recording conditions and purposes.

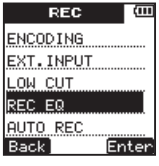
The record equalization (REC EQ) functions are designed to enhance voices, low frequencies, middle frequencies and high frequencies.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** REC **menu item.**

3 **Press the ►►I (Enter) key to open the REC menu screen.**

4 **Use the +/– keys to select the REC EQ item.**



5 **Press the ►►I (Enter) key to open the REC EQ setting screen.**

6 **Use the +/– keys to select one of the following. (The default value is OFF.)**

Display	Sound quality enhancement
OFF	None
VOICE BOOST	Voice enhancement
TREBLE BOOST	Emphasizes high frequencies
MIDDLE BOOST	Middle frequency enhancement
BASS BOOST	Emphasizes low frequencies

7 **Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the REC EQ menu screen.**

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Automatically starting and pausing recording

This unit can be set to automatically start and pause recording according to input sound levels.

1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the REC menu item.

3 Press the ►►I (Enter) key to open the REC menu screen.

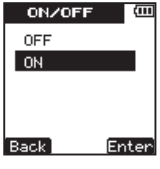
4 Use the +/– keys to select the AUTO REC item.

5 Press the ►►I (Enter) key to open the AUTO REC menu screen.

6 Use the +/– keys to select the ON/OFF item.

7 **Press the ►►I (Enter) key to open the ON/OFF setting screen.**

8 **Use the +/– keys to select ON. (The default value is OFF.)**



9 **Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the AUTO REC ON/OFF screen**

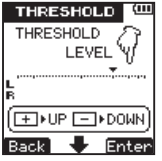
10 **Press the I◄◄ (Back) key to return to the AUTO REC menu screen**

11 **Use the +/– keys to select the THRESHOLD item.**

12 **Press the ►►I (Enter) key to open the THRESHOLD setting screen.**

13 **Set the level at which recording starts and pauses (THRESHOLD LEVEL). A ▼ icon**

appears above the level meter on the screen. Use the +/– keys to set the value to -6dB, -12dB, -24dB or -36dB.



14 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the THRESHOLD setting screen.

15 When you have finished making the settings, press the HOME key to return to the Home Screen.

Set the folder where recorded files are saved

Set the folder where the file being recorded is to be saved before beginning recording.

If no particular setting is made, the file will be saved in the SOUND folder.

1 Press the FUNCTION key to open the FUNCTION menu screen.

2 Use the +/– keys to select the FILE/FOLDER menu item.

3 **Press the ►►I (Enter) key to open the FILE/FOLDER screen.**

4 **Use the +/– keys to select the folder where you want to save recorded files.**

5 **Press the ►►I (Next) key to open the selected folder.**

6 **This sets the folder where recorded files are saved. Press the HOME key to return to the Home Screen.**

NOTE

If you select PLAYLIST as the destination for saving new recorded files, they are saved in the folder that contains the currently selected file.

Creating new folders

Folders can be created to a maximum of two levels inside the SOUND folder, which is the root folder used by this unit. Use folders to organize recording sessions and categorize music tracks, for example.

1 **Press the FUNCTION key to open the FUNCTION menu screen.**

2 **Use the +/– keys to select the FILE/FOLDER menu item.**

3 **Press the ►►I (Enter) key to open the FILE/FOLDER screen.**

4 **Use the +/– keys to select the New Folder menu item.**

5 **Press the ►►I (Next) key to open the following pop-up message.**

6 **Press the ►►I (Yes) key to create and open a new folder. The newly created folder is set as the folder where recorded files are saved.**

7 **When you are finished creating new folders, press the HOME key to return to the Home Screen.**

Placement and connections

Recording with the built-in microphone

Point the microphone toward the sound source and put it in a stable place where vibration is minimal.

Recording with an external microphone

Connect the external microphone to the unit's **MIC/EXT. IN** jack.

Point the microphone toward the sound source and put it in a stable place where there is little vibration.

On the EXT. INPUT setting screen, set EXT. INPUT to EXT. MIC. (See "Setting external input" on page 45.)

Recording with an external device (MIC/EXT. IN)

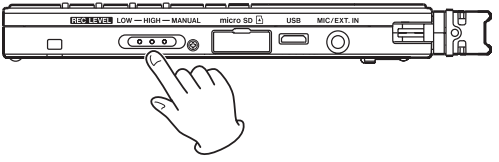
Connect the output of an external audio device to the unit's **MIC/EXT. IN** jack using a stereo mini-plug cable.

On the EXT. INPUT setting screen, set EXT. INPUT to LINE. (See "Setting external input" on page 45.)

Adjusting the input level

Using the auto gain control function

Set the REC LEVEL switch on the right side panel to LOW or HIGH.



Set this way, the unit automatically adjusts the input gain according to the input level. This function is useful for recording meetings and other situations where people are talking.

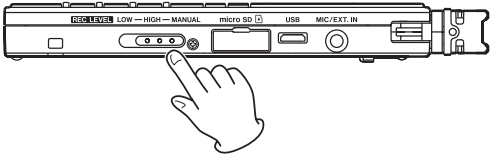
When the volume of the sound you are recording is loud, set the switch to LOW. When the recording sounds distant or quiet

or the sound source itself has low volume, set the switch to HIGH.

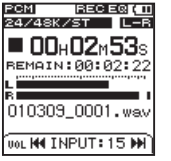
When the REC LEVEL switch is set to LOW or HIGH, the unit automatically adjusts the recording level for optimal recording, so you cannot use the I◄◄ / ►►I keys to manually adjust the recording level.

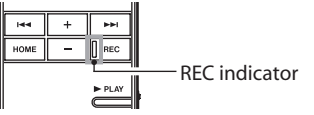
Setting the recording level manually

1 Set the REC LEVEL switch on the right side panel to MANUAL.



2 Press the REC key to put the unit into recording standby. The recording indicator blinks and the recording screen appears.





3 Use the I◄◄ and ►►I keys to adjust the input level. The input level is shown at the bottom of the display.

NOTE

- *Press the ■ STOP key to end recording standby.*
- *When in recording standby and during recording, even if the SPEAKER setting is set to ON, no sound is output from the built-in speaker. If you want to adjust the level or record while monitoring the sounds, connect headphones to the unit's*

🎧/LINE OUT jack. The monitoring sound volume can be adjusted using the +/– keys, but this has no effect on the recording.

TIP

In addition to using the ⏮ / ⏭ keys to adjust the recording level, try changing the orientation of the microphone and its distance from the source of the sound. The orientation of the microphone and the distance also change the sound quality.

Recording

Use the following procedures after selecting the input, adjusting the level and returning to the Home Screen.

NOTE

If the REC LEVEL switch is set to LOW or HIGH, pressing the REC key once starts recording immediately without putting the unit into recording standby. You can check the current recording setting at the top of the Home Screen.

1 Press the REC key to start recording standby. The REC indicator blinks when in recording standby.

2 Press the REC key to start recording.

When recording starts, the **REC** indicator lights, and the elapsed recording time and the remaining recording time are shown on the display.

3 Press the ■ STOP key to end recording.

Starting a new file while continuing to record

With this unit, the maximum recording file size is 2 GB. If the file size reaches 2 GB while recording, the unit automatically continues recording in a new file and stops recording the current file.

Manually starting a new file during recording

You can manually create a new file during recording at any time. Press the **REC** key during recording create a new file and continue recording.

CAUTION

- *If the total number of folders and files would exceed 999, a new file cannot be created.*
- *A new file cannot be created if the recording time is less than 2 seconds.*
- *If the newly created file would have the same name as an existing file, the numerical suffix is increased by one as many times as necessary until a unique name is created.*

NOTE

- *When a new file is created, the number at the end of the file name is increased by one.*
- *Recording times are different for the same file size depending on the file format. In addition, if*

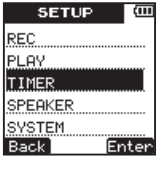
the recording time exceeds 24 hours, "23:59:59" is shown on the display.

Using timer recording

The unit can start and end recording at set times. In addition to setting start and end times, you can also set the unit to record only once or repeat recording daily.

1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the TIMER menu item.



3 Press the ►►I (Enter) key to open the TIMER menu screen.

4 Use the +/– keys to select the ON/OFF item.

5 Press the ►►I (Enter) key to open the ON/OFF setting screen.

6 Use the +/– keys to set the timer operation to one of the following options.

OFF	Timer OFF
ONCE	Record only once
DAILY	Record every day

7 **Press the ►►I (Enter) key to cinfirm the setting and show a pop-up with the setting briefly, and then return to the ON/OFF setting screen.**

8 **Press the I◄◄ (Back) key to return to the TIMER menu screen.**

9 **Use the +/– keys to select the START/END menu item.**

10 **Press the ►►I (Enter) key to open the START/END setting screen where you can set the timer starting and ending times.**

11 **Use the ►►I (Next) key to select the time increment to set, and use the +/– keys to change the timer starting and ending times.**

12 **Press the REC key to confirm the setting and open a pop-up briefly and return to the START/END setting screen.**

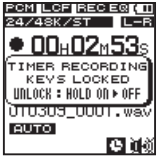
13 When you have finished making the settings, press the HOME key to return to the Home Screen.

CAUTION

The starting and ending times for timer recording are based on the DATE/TIME item setting. Be sure to use the DATE/TIME setting screen to set this accurately in advance. (See "Setting the date and time" on page 35.)

NOTE

During timer recording, regardless of the position of the ⏻/❙/HOLD switch, the unit's keys are disabled to prevent recording from being stopped unintentionally. The following pop-up message appears if you try to use the keys on the unit.



If you want to operate the unit during timer recording, slide the ⏻/❙/HOLD switch toward the HOLD position momentarily to disable the hold function.

Recording the moment before pushing REC (PRE REC)

By using prerecording, when the unit is in recording standby you can record up to two seconds of the signal input before the REC button is pushed to start recording.

Press and hold the REC button when stopped to staty pre-recording standby. Press REC button again to start recording for two seconds when the recording is activated

TIP

By using this in combination with the AUTO REC function, you can record events without losing the beginnings of sounds.

NOTE

If the amount of time in record standby is less than two seconds, the sound for that amount of time is recorded.

Recording formats and times

Recording times (hours: minutes) for different file formats and microSD/microSDHC card capacities are shown in the following table.

	1GB	2GB	4GB	8GB
PCM24/96/ST	0:36	1:02	2:04	4:08
PCM16/96/ST	0:46	1:33	3:06	6:12
PCM24/48/ST	1:02	2:04	4:08	8:16
PCM16/48/ST	1:33	3:06	6:12	12:24
PCM24/44/ST	1:07	2:15	4:30	9:00
PCM16/44/ST	1:41	3:22	6:44	13:28
PCM16/44/MO	3:22	6:44	13:28	26:56
MP3/320/ST	7:27	14:54	29:48	59:36
MP3/192/ST	12:25	24:50	49:40	99:20
MP3/128/ST	18:36	37:16	74:32	149:04
MP3/64/ST	37:16	72:32	149:04	298:08
MP3/160/MO	14:54	29:48	59:36	119:12
MP3/96/MO	24:50	49:40	99:20	198:40
MP3/64/MO	74:30	145:04	298:08	596:16
MP3/32/MO	149:04	290:08	596:16	1192:32

- The above recording times are estimates, and might differ according to the microSD/microSDHC card.
- The above recording times are not continuous recording times. They are total recording times for microSD/microSDHC card capacities.

5 – File and folder operations (FILE/FOLDER screen)

On the FILE/FOLDER screen, you can view the contents of the SOUND folder (which is used to store audio files) on the microSD card. In addition, you can erase audio files selected on this screen, create folders and add tracks to the Playlist. (See “Playlist” on page 74.)

TIP

If you connect this unit to a computer by USB, or connect the microSD card directly to a computer using a card reader, you can also use the computer to change the structure of folders inside the SOUND folder and delete files. Moreover, you can also use the computer to edit file names.

To open the FILE/FOLDER screen, press the FUNCTION key to open the FUNCTION menu screen, use the +/– keys to select the FILE/FOLDER menu item, and press the ►►I key to open it.

This screen shows the contents of the folder that contains the file selected on the Home Screen before the FILE/FOLDER screen was opened.

Navigating the FILE/FOLDER screen

The FILE/FOLDER screen shows folders and music files in a tree hierarchy format much like a file list shown on a computer. Two sub-levels of folders can be created.

- Use the **+/–** keys to select files and folders.
- When a folder is selected, press the ►►I (Next) key to show its contents.
- When a file or folder is selected, press the I◄◄ (Back) key to close the currently open folder, and show the contents of the higher level folder.

- When a file is selected, press the ►►I (Next) key to open the pop-up menu.
- When New Folder is selected, press the ►►I (Next) key to open a pop-up message to confirm whether or not you want to create a new folder.

Icons shown on the FILE/FOLDER screen

The following types of icons are shown on the FILE/FOLDER screen.

Playlist PLAYLIST

PLAYLIST appears next to an icon. (See “Playlist ” on page 74.)

SOUND folder SOUND

On the root level screen, the SOUND folder is shown as the top level.

New folder New Folder

New Folder appears next to an icon. (See “Creating a new folder” on page 66.)

Audio file

A music file is shown with its file name after an icon.

Folder

This icon indicates a folder that contains files or other folders.

Folder

This icon indicates a folder that does not contain files or other folders.

Displayed folder

The contents of the current folder are shown on the screen.

File operations

You can add files to the Playlist and delete them from the card.

1 After selecting a file on the FILE/FOLDER screen, press the ►►I (Next) key to open the following pop-up message.

2 Use the +/– keys to select the desired item, and press the ►►I (Exec.) key to execute one of the following operations.

ADD TO LIST

Adds the selected file to the Playlist. (See "Playlist" on page 74.)

DELETE

Opens a pop-up message where you can confirm whether you want to delete the selected file.

Press the ►►I (Yes) key to erase the selected file.

Press the I◄◄ (No) key to cancel erasing the file.

NOTE

You cannot erase write-protected files and files that this unit does not recognize.

Folder operations

You can select the folder for recording and playing files and create new folders.

Selecting a folder for recording and playback

Select the desired folder on the FILE/FOLDER screen, and press the ►►I (Next) key to open the selected folder and show a list of the files in the folder.

Opening a folder also sets it as the folder for recording and playback.

When you are done selecting the folder, press the **HOME** key to return to the Home Screen.

Creating a new folder

Select New Folder on the FILE/FOLDER screen, and press the ►►I (Next) key to open a pop-up message where you can confirm whether you want to create a new folder.

Press the ►►I (Yes) key to create a new folder and open it. Press the I◄◄ (No) key to cancel creation of a new folder and return to the FILE/FOLDER screen.

When a new folder is created, it is automatically set as the recording/playback folder.

After finishing the creation of a new folder, press the **HOME** key to return to the Home Screen.

NOTE

- *A maximum of two sub-levels of folders can be created.*
- *If you select PLAYLIST as the destination for saving new recorded files, they are saved in the folder that contains the currently selected file.*

Splitting files

You can split a file into two files at any point.

1 **Use the ⏮ and ⏭ keys or the FOLDER/FILE screen to select the file that you want to split.**

2 **Play or search the file until you find the point where you want to split it.**

3 **Press the FUNCTION key to open the FUNCTION menu screen.**

4 **Use the +/– keys to select the SPLIT FILE menu item.**

5 **Press the ⏭ (Enter) key to open the SPLIT FILE screen.**

6 **Use the +/– keys to adjust the point where the file is to be split.**

7 **After setting the split point, press the ⏭ (Exec.) key to open the following pop-up message.**

8 **Press the ⏭ (Yes) key to split the file and return to the Home Screen.**

Press the I◄◄ (No) key to cancel splitting the file and return to the SPLIT FILE screen.

NOTE

When the SPLIT FILE screen is open, you can press the ► PLAY key and find the point where you want to split the file during playback.

When a file is split, new files are created with "_a" and "_b" added to the end of the original file name.

For example, if the file name before being split was "091225_0000.wav", then the file names after splitting are "091225_0000_a.wav" (part before the split point) and "091225_0000_b.wav" (part after the split point).

After being split, the "_a" file is selected.

CAUTION

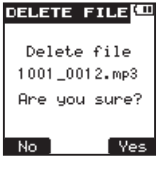
- *MP3 files cannot be split.*
- *If the open capacity on the microSD card is low, splitting might not be possible.*
- *If the resulting file names would have more than 200 characters, splitting is not possible.*
- *If a file already exists that has the same name as a name that would result from splitting a file, splitting is not possible.*

Erasing files

Follow these procedures to erase unnecessary files.

1. **Use the I◄◄ and ►►I keys or the FOLDER/FILE screen to select a file that you want to erase.**
2. **Press the FUNCTION key to open the FUNCTION menu screen.**
3. **Use the +/– keys to select the DELETE FILE menu item.**

4 Press the ►►I (Enter) key to open the DELETE FILE screen.



5 Press the ►►I (Yes) key to erase the file and return to the Home Screen. Press the I◄◄ (No) key to cancel erasing the file and return to the FUNCTION menu screen.

NOTE

This unit cannot erase a file that is write-protected. To erase such a file, connect the unit to a computer and change this property from the computer.

Playing a file

On the Home Screen, press the ► **PLAY** key when stopped to start playback.

NOTE

- *Files must be in the playback area to be played. (See "Set the playback and repeat area" on page 72.)*
- *You can also select a file on the FILE/FOLDER screen to play it.*

Stopping playback

On the Home Screen, press the ■ **STOP** key during playback to stop playback at the current position.

Searching backward and forward

On the Home Screen, when stopped or during playback, press and hold the ⏮ and ⏭ keys to search backward or forward.

Jumping back a few seconds during playback

During playback, press the ► **PLAY** key to jump back a few seconds and continue playback.

Set the jump back interval using the following procedures.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** PLAY **menu item.**

3 **Press ⏭ (**Enter**) key to open the** PLAY **menu screen.**

4 **Use the +/– keys to select the** JUMP BACK **menu item.**

5 **Press the ►►I (Enter) key to open the JUMP BACK setting screen.**

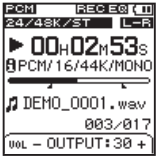
6 **Use the +/– keys to set the jump back interval to one of the following values: OFF, 1-10 seconds (in 1-second increments), 20 seconds or 30 seconds. (The default value is 3 seconds.)**

7 **Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the JUMP BACK screen.**

8 **When you have finished making the setting, press the HOME key to return to the Home Screen.**

Adjusting the playback volume

Press the **+/–** keys when stopped, when paused or during playback to adjust the volume output to headphones or an audio monitoring system connected to the unit. The output level is shown at the bottom of the display



Set the playback and repeat areas

Use the MODE setting in the PLAY menu to set the playback area.

When the last file in the playback area is played, the unit automatically continues playing from the beginning of the first file in the playback area.

1 **Press the SETUP key to open the SETUP menu screen.**

2 **Use the +/– keys to select the PLAY menu item.**

3 **Press the ►►I (Enter) key to open the PLAY menu screen.**

4 **Use the +/– keys to select the MODE item.**

5 **Press the ►►I (Enter) key to open the MODE setting screen.**

6 Use the +/– keys to set the playback area to one of the following.

ALL FILES
Play all the files in the SOUND folder on the microSD card.

FOLDER (default value)
Play all the files in the folder that contains the currently selected file.

PLAYLIST
Play all the files that have been added to the Playlist. (See "Playlist" on page 74.)

7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the MODE screen.

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

NOTE

The current playback area setting is shown at the bottom left of the Home Screen. When A-B repeat playback is active, the A-B repeat setting is shown.

Using the FILE/FOLDER screen to set a folder as the playback area

Regardless of the current playback area setting, selecting a folder on the FILE/FOLDER screen sets the selected folder as the playback area.

1 **Press the FUNCTION key to open the** FUNCTION **menu screen.**

2 **Use the +/– keys to select the** FOLDER/FILE **menu item.**

3 **Press the ►►I (**Enter**) key to open the** FILE/FOLDER **screen.**

4 **Use the +/– keys to select the folder that you want to set as the playback area.**

NOTE

For details about FILE/FOLDER screen operations, see "5 – File and folder operations (FILE/FOLDER screen)" on page 63.

5 **Press the ►►I (**Next**) key to open the selected folder and show a list of files inside the folder. This action also sets the selected folder as the playback area.**

6 **Press the HOME key to return to the Home Screen.**

Playlist

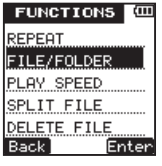
You can add files to the Playlist and set it as the playback area.

Use the PLAY item in the SETUP menu to set MODE to PLAYLIST. This sets the unit to play the files in the Playlist.

Adding files to the Playlist

1 **Press the FUNCTION key to open the** FUNCTION **menu screen.**

2 **Use the +/– keys to select the** FOLDER/FILE **menu item.**



3 **Press the ►►I (**Enter**) key to open the** FILE/FOLDER **screen.**

NOTE

For details about FILE/FOLDER screen operations, see "5 – File and folder operations (FILE/FOLDER screen)" on page 63.

4 **Use the +/– keys to select a file to add to the Playlist.**

5 **Press the ►►I (**Next**) key to open the following pop-up menu.**

6 **Use the +/– keys to select** ADD TO LIST**.**

7 **Press the ►►I (**Exec.**) key to add the selected file to the Playlist, and close the pop-up menu.**

8 **Repeat steps 4, 5, 6 and 7 as necessary. The files are numbered in the list in the order that they are added.**

9 **When you are finished adding tracks to the Playlist, press the HOME key to return to the Home Screen.**

Editing the Playlist

The PLAYLIST screen shows the tracks in the Playlist. You can use this screen to edit the Playlist.

1 **Press the FUNCTION key to open the** FUNCTION **menu screen.**

2 **Use the +/– keys to select the** FILE/FOLDER **menu item.**

3 **Press the ►►I (**Enter**) key to open the** FILE/FOLDER **screen.**

NOTE

For details about FILE/FOLDER screen operations, see "5 – File and folder operations (FILE/FOLDER screen)" on page 63.

4 **Use the +/– keys to select** PLAYLIST**.**

5 **Press the ►►I (**Next**) key to open the** PLAYLIST **screen.**

6 **Use the +/– keys to select the file that you want to edit.**

7 Press the ►►I key (Next) to open the pop-up menu.

8 Use the +/– keys to select the desired operation from the following choices.

9 Press the ►►I (Exec.) key to execute it.

DELETE

Remove the file from the Playlist. A file that is removed from the Playlist is not erased from the microSD card.

MOVE

Use this to change the order of the selected file. The file number is highlighted along with the file name.

- Use the **+/–** keys to change the file order in the Playlist.

The illustration above shows a file being moved from the fourth to the third position.

- Press the ►►I (Next) key to confirm the movement and return to the PLAYLIST screen. To cancel the movement, press the I◄◄ (Back) key, and return to the previous screen.

DELETE ALL

Use this to remove all files from the Playlist. Files that are removed from the Playlist are not erased from the microSD card.

- After pressing the ►►I key, open a pop-up message to confirm the deletion of all the files from the Play List.

- Press the ►►I (Yes) key to delete all the files from the Play List and return to the PLAYLIST screen. Press the I◄◄ (No) key to cancel the deletion and return to the PLAYLIST screen.

10 When you are finished editing, press the HOME key to return to the Home Screen.

Selecting a file for playback (skipping)

On the Home Screen, press the I◄◄ and ►►I keys to select the file that you want to play.

When in the middle of a file, press the I◄◄ key to return to the beginning of the file. When at the beginning of a file, press the I◄◄ key to skip to the beginning of the previous file.

When at the beginning or in the middle of a file, press the ►►I key to skip to the beginning of the next file.

NOTE

- *Files must be in the playback area to be played back.*
- *Information (file name, etc.) about the file being played back and its file number is shown on the display.*
- *When stopped at the beginning of a file, the ■ icon is shown on the display. When a file is paused, the ❚❚ icon is shown.*

Repeating playback of an interval

You can play a desired interval within a file repeatedly (A-B repeat playback).

1 **Press the FUNCTION key to open the** FUNCTION **menu screen.**

2 **Use the +/– keys to select the** REPEAT **item.**

3 **Press the ►►I (**Enter**) key to open the** REPEAT **setting screen.**

By default, the repeat starting point (A) is set at the beginning of the file and the ending point (B) is set at the end of the file. If you want to repeat the playback of an entire file, press the + key without changing the A and B points

4 **During playback (or when paused), press the I◄◄ (**A point**) key at the point where you want to start repeat playback. The A (starting) point is set at the position where the I◄◄ key is pressed.**

5 **Press the ►►I (**B point**) key at the point where you want to end repeat playback. The B (ending) point is set at the position where the ►►I key is pressed.**

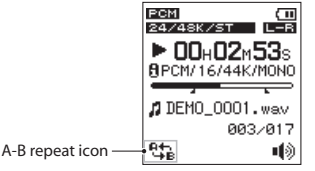
▟/▙ icons appear beneath the playback position bar on the Home Screen at the A and B point positions.

6 Press the + key to start repeat playback.

A-B repeat icon appears at the bottom left of the screen.

To disable the A-B repeat function, press + key again. A-B repeat icon disappears.

During repeat playback, the A-B repeat icon also appears at the bottom left of the Home Screen.



NOTE

- *Press and hold the ⏮ and ⏭ keys to search.*
- *The A and B points must be in the same file. Repeating between two or more files is not possible.*
- *When a different file is selected, the A and B point settings are discarded.*
- *Setting the A and B points accurately might not be possible with an MP3 file that is VBR format.*

TIP

You can repeat playback of a single file by setting the A point at its beginning and the B point at its end. If A and B points have not been set, by default, the A point is set as the start of the file and the B point is set as the end of the file. As a result, an entire file can be repeated by turning the repeat function ON without setting A and B points in advance.

Enhancing sound quality during playback

This unit has a filter that can enhance voice frequencies, reduce noise, and reduce high or low frequencies during playback. Use this feature according to the recorded material and playback environment.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** PLAY **item.**

3 **Press the ►►I (**Enter**) key to open the** PLAY **menu screen.**

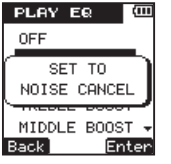
4 **Use the +/– keys to select the** PLAY EQ **item.**

5 **Press the ►►I (**Enter**) key to open the** PLAY EQ **setting screen.**

6 Use the +/– keys to select from the following filter functions according to the playback conditions. (The default value is OFF.)

OFF	EQ function OFF (default value)
NOISE CANCEL	Reduces noise.
VOICE BOOST	Voice enhancement
TREBLE BOOST	Emphasizes high frequencies
MIDDLE BOOST	Emphasizes middle frequencies
BASS BOOST	Emphasizes low frequencies
LOW CUT	Reduces low frequencies.
HIGH CUT	Reduces high frequencies.

7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the PLAY EQ setting screen.



8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Changing the playback speed

Using this unit's playback speed control function, you can adjust the playback speed without changing the pitch in a range from half speed to double speed.

When the playback speed is set to any value other than 100%, the playback speed function can be turned ON or OFF. When set to 100%, the DOWN ▼/ U P ▲ icons are not shown.

NOTE

The playback speed function cannot be used with a file that has been recorded at a sampling frequency of 96 kHz.

1 **Press the FUNCTION key to open the** FUNCTION **menu screen.**

2 **Use the +/– keys to select the** PLAY SPEED **menu item.**

3 **Press the ►►I (**Enter**) key to open the** PLAY SPEED **setting screen.**

4 **Press the + key to increase the playback speed and the – key to decrease the playback speed. The adjustment range is 50–200% (in 10% increments).**

5 **Press the ►►I (**ON/OFF**) key to turn play speed function ON/OFF. When the playback speed function is ON, and the adjustment is set to a value other than 100%, an** DOWN ▼

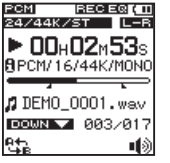
or UP icon appears on the PLAY SPEED setting screen.

6 **When you have finished making the setting, press the HOME key to return to the Home Screen.**

7 **Press the PLAY key to begin playback at the speed that was set. To restore playback to its original speed, set the value to 100% in step 4 above or turn the function OFF in step 5.**

NOTE

When the playback speed function is ON, and the adjustment is set to a value other than 100%, an DOWN or UP icon appears on the Home Screen.



Connecting to a computer by USB

By connecting this unit with a computer using the included Micro USB cable, you can copy audio files between the unit's microSD card and the computer.

This unit is compatible with the following audio file formats.

MP3: 32–320 kbps, 44.1 kHz

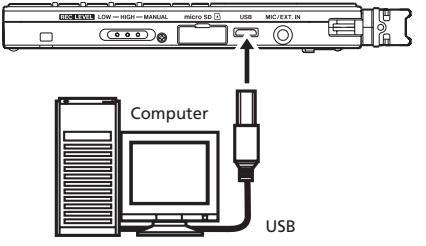
WAV: 44.1/48/96 kHz, 16/24-bit

NOTE

Instead of connecting this unit to a computer by USB, you can also remove the microSD card and connect it directly to a computer (by using a card reader, for example) to perform the same operations.

CAUTION

- *When connected to a computer by USB and data transmission is enabled, the unit cannot be used normally.*
- *Connect the unit directly to a computer. Do not use a USB hub.*



When connected to a computer, a pop-up window appears on this unit's display to let you choose whether you want to operate the unit using USB bus power or to connect the unit with the computer by USB.

Press the ►►I (Yes) key.

"USB connected" appears on the display.

Confirm that the microSD card is inserted into the unit correctly.

If a USB connection is made when a microSD card is not inserted correctly, a "Can't Save Data" pop-up message appears.

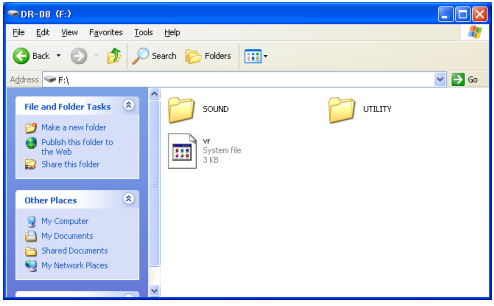
The unit appears on the computer as an external drive named "DR-08".

Copying files to a computer

1. **Click the drive named "DR-08" on the computer display to show the "SOUND" and "UTILTY" folders inside it.**
2. **Open the "SOUND" folder and drag-and-drop the files that you want to copy to any location on the computer.**

Copying files from a computer

1. **Click the drive named "DR-08" on the computer display to show the "SOUND" and "UTILTY" folders inside it.**
2. **Drag-and-drop audio files from the computer to the "SOUND" folder.**



TIP

- *You can also use the computer to manage the contents of the "SOUND" folder.*
- *You can create subfolders inside the "SOUND" folder, but this unit can only recognize two levels of subfolders. The unit ignores deeper folder levels.*
- *Since this unit can be set to play the contents of a single folder, organizing folders by musical category or artist could be convenient.*
- *Names given to subfolders and files are shown on the unit's Home Screen and the FILE/FOLDER screen.*

Ending the connection with a computer

Follow the correct computer procedures to disconnect the unit from the computer before disconnecting the USB cable. This unit automatically restarts.

Please refer to your computer manual for information about the correct procedures for disconnecting an external drive.

Other settings

Use the items in the SYSTEM menu to make various settings to suit the environment and conditions in which the unit is to be used, as well as to format microSD cards.

Using the auto power off function

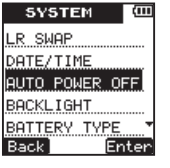
Use the AUTO POWER OFF setting to set the amount of time since being last used until the unit's power automatically turns OFF when operating on batteries.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** SYSTEM **menu item.**

3 **Press the ►►I (**Enter**) key to open the** SYSTEM **menu screen.**

4 **Use the +/– keys to select** AUTO POWER OFF**.**



5 **Press the ►►I (**Enter**) key to open the** AUTO OFF **setting screen.**

6 **Use the +/– keys to set the time.**
Options: OFF (default value—auto power off disabled), 3min, 5min, 10min, 30min

7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the AUTO OFF setting screen.

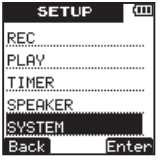
8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Setting the backlight

Use the BACKLIGHT item to set the amount of time since being last used until the unit's backlight automatically turns OFF when operating on batteries.

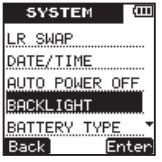
1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the SYSTEM menu item.



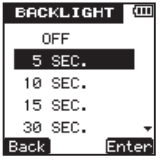
3 Press the ►►I (Enter) key to open the SYSTEM menu screen.

4 Use the +/– keys to select the BACKLIGHT item.



5 Press the ►►I (Enter) key to open the BACKLIGHT setting screen.

6 Use the +/– keys to set the time.
Options: OFF (backlight does not turn OFF), 5sec (default value), 10sec, 15sec, 30sec



7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the BACKLIGHT setting screen.

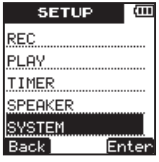
8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Setting the battery type

Use the BATTERY TYPE item to set the type of battery used. This setting is necessary for the unit to display the remaining battery charge and determine the minimum necessary remaining charge for correct operation.

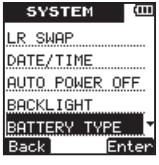
1 Press the SETUP key to open the SETUP menu screen.

2 **Use the +/– keys to select the** SYSTEM **menu item.**



3 **Press the ►►I (**Enter**) key to open the** SYSTEM **menu screen.**

4 **Use the +/– keys to select** BATTERY TYPE**.**



5 **Press the ►►I (**Enter**) key to open the** BATTERY **setting screen.**

6 **Use the +/– keys to set the battery type.**
Options: ALKALINE (alkaline batteries—default value), NiMH (nickel metal hydride batteries)

7 **Press the ►►I (**Enter**) key to confirm the setting and show a pop-up with the setting briefly, and then return to the** BATTERY **setting screen.**

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Using the stealth mode

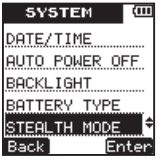
Use the STEALTH MODE item to set the backlight and REC indicator to stay unlit at all times.

1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the SYSTEM menu item.

3 Press the ►►I (Enter) key to open the SYSTEM menu screen.

4 Use the +/– keys to select STEALTH MODE.



5 Press the ►►I (Enter) key to open the STEALTH setting screen.

6 Use the +/– keys to turn the stealth mode OFF (default value) or ON.
(REC indicator and backlight disabled).

7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting

briefly, and then return to the STEALTH **setting screen.**

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Setting the contrast

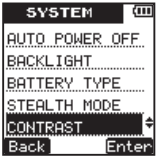
Use the CONTRAST item to adjust the display contrast.

1 Press the SETUP key to open the SETUP **menu screen.**

2 Use the +/– keys to select the SYSTEM **menu item.**

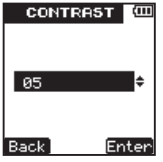
3 Press the ►►I (Enter**) key to open the** SYSTEM **menu screen.**

4 Use the +/– keys to select CONTRAST**.**



5 Press the ►►I (Enter**) key to open the** CONTRAST **setting screen.**

6 Use the +/– keys to set the display contrast.
Options: 01 – 10 (default value: 5)



7 Press the ►►I (Enter) key to confirm the setting and show a pop-up with the setting briefly, and then return to the CONTRAST setting screen.

8 When you have finished making the setting, press the HOME key to return to the Home Screen.

Reformatting the microSD card

You can reformat the microSD card.

CAUTION

- *If you format the card, all files on it are erased.*
- *When formatting, use USB bus power or confirm that the remaining battery charge is sufficient. If the batteries run out of power during this operation, the formatting might not be completed correctly.*

■ Quick formatting

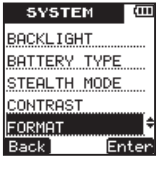
Use this procedure to format the microSD card quickly.

1 Press the SETUP key to open the SETUP menu screen.

2 Use the +/– keys to select the SYSTEM menu item.

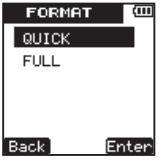
3 **Press the ►►I (Enter) key to open the SYSTEM menu screen.**

4 **Use the +/– keys to select FORMAT.**



5 **Press the ►►I (Enter) key to open the FORMAT screen..**

6 **Use the +/– keys to select QUICK.**



7 **Press the ►►I (Enter) key to open a confirmation pop-up message.**

8 **Press the ►►I (Yes) key to start quick formatting.**

9 **When the quick formatting finishes, the FORMAT menu screen reopens.**

10 **Press the HOME key to return to the Home Screen.**

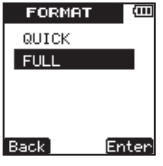
■ Full formatting

Use this procedure to full-format the microSD card.

With full formatting, memory errors are checked as formatting is executed. This procedure takes a long time compared to quick formatting.

1 **Conduct steps 1 to 5 of the Quick Formatting procedures above.**

2 **Use the +/– keys to select** FULL**.**



3 **Press the ►►I (**Enter**) key to open a confirmation pop-up message.**

4 **Press the ►►I (**Next**) key to open a second confirmation pop-up message.**

5 **Press the ►►I key to start full formatting.**

6 **When full formatting finishes, the** FORMAT **menu screen reopens.**

7 **Press the HOME key to return to the Home Screen.**

Initializing unit settings

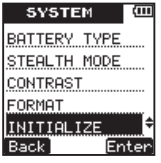
Use the INITIALIZE item to restore the unit's various settings to their default values.

1 **Press the SETUP key to open the SETUP menu.**

2 **Use the +/– keys to select the SYSTEM menu item.**

3 **Press the ►►I (Enter) key to open the SYSTEM menu screen.**

4 **Use the +/– keys to select INITIALIZE.**



5 **Press the ►►I (Enter) key to open a confirmation pop-up message.**

6 **Press the ►►I (Exec.) key to start initialization. After initialization completes, the SYSTEM menu reappears.**

7 **Press the HOME key to return to the Home Screen.**

Viewing unit, card and file information

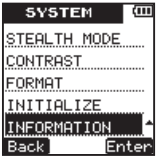
Use the following procedures to open the INFORMATION screen where you can view various types of information.

1 **Press the SETUP key to open the** SETUP **menu screen.**

2 **Use the +/– keys to select the** SYSTEM **menu item.**

3 **Press the ►►I (**Enter**) key to open the** SYSTEM **menu screen.**

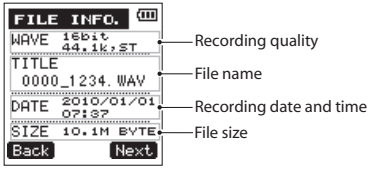
4 **Use the +/– keys to select** INFORMATION**.**



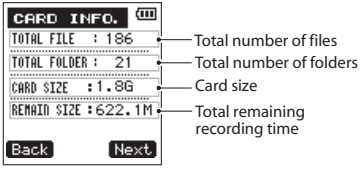
5 **Press the ►►I (**Enter**) key.**

6 **Use the +/– keys to select the desired item, and press the ►►I (**Enter**) key.**

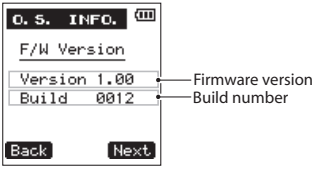
- FILE information page
  This page shows information about the audio file being played.



- CARD information page
  This page shows information about the use of the microSD card currently in the unit.



- Operatin system information page
  This page shows information about the system firmware version.



Press the ►►I (Next) key on any information page to open the next information page.

7 **Press the HOME key to return to the Home Screen.**

9 – Messages

The following is a list of the pop-up messages that might appear on the DR-08 under certain conditions.

Refer to this list if one of these pop-up messages appears and you want to check the meaning or determine a suitable response.

Message	Meaning and response
FILE NAME ERR	The SPLIT FILE function would cause the file name to exceed 200 characters. The SPLIT FILE function adds "_a" or "_b" to the end of the file name. Before choosing the SPLIT FILE function, connect the unit to a computer and edit the file name to less than 198 characters.
DUP FILE NAME	The SPLIT FILE function would cause the file name to be the same as that of an existing file. The SPLIT FILE function adds "_a" or "_b" to the end of the file name. Before choosing the SPLIT FILE function, connect the unit to a computer and edit the file name.
FILE NOT FOUND	The file added to the playlist cannot be found or a file could be damaged. Please check the file in question.
NON-SUPPORTED	The audio file is not a supported format. Please see "7–Connecting with a Computer" for file formats that this unit can use.
BATTERY EMPTY	The battery is almost out of power. Replace the AAA batteries.
A-B TOO SHORT	The A and B points are too close together. Reset the A and B points with at least 1 second between them.
FILE NOT FOUND PLAYLIST	The file in the Playlist cannot be found. Please confirm that the file is still in the SOUND Folder.

Message	Meaning and response
NO PLAYLIST	No files have been added to the Playlist. Add a file to the Playlist or change the play mode to something besides PLAYLIST.
PLAYLIST FULL	The playlist is full. You cannot add more than 99 tracks to the Playlist.
MBR ERROR INIT CARD	The card is not formatted properly or the formatting is broken. Change the card or press the ►►I key when this message appears to format the card in FAT format. **CAUTION:** *Execution of FAT formatting erases all data currently on the card.*
FORMAT ERROR FORMAT CARD	The FAT formatting of the card is abnormal or broken. This message also appears if you FAT formatted the card using a computer connected by USB and if a new card is inserted in the unit. Always use the DR-08 to conduct FAT formatting of cards to be used with it. Change the card or press the ►►I key when this message appears to format the card in FAT format. **CAUTION:** *Execution of FAT formatting erases all data currently on the card.*
FILE NOT FOUND MAKE SYS FILE	The system file is missing. This unit requires a system file for operation. When this message appears, press ►►I to automatically create a system file.
INVALID SYSFILE MAKE SYSFILE	The system file required to operate this unit is invalid. When this message appears, press ►►I to automatically create a system file.
INVALID CARD CHANGE CARD	Something might be wrong with the card. Change the card.

9 – Messages

Message	Meaning and response
WRITE TIMEOUT	Writing to the card timed out. Backup files on the card to your computer, and format the card.
CARD FULL	The card has no remaining capacity. Erase unnecessary files or move them to your computer to make open space.
LAYER TOO DEEP	Folders can be created down to two layers. You cannot create a new folder inside the current folder.
CAND'T DIVIDE	The position selected for divide is not suitable (too close to the beginning or end of a track).
MAX FILE SIZE	The file is larger than the designated size or the recording time exceeded 24 hours.
FILE FULL	The total number of folders and files exceeds 999. Erase unnecessary files or move them to your computer.
CARD ERROR	The card could not be handled properly. Replace the card.
CURRENT FILE MP3	MP3 files cannot be divided.
FILE PROTECTED	The file is read only and cannot be erased.
NO CARD	No card is in the unit, so recording is not possible.
NO PB FILE	There is no file that can be played back. The file might be damaged.
NO MUSIC FILE	There is no playback file, so SPLIT FILE cannot be executed.

Message	Meaning and response
NOT CONTINUED	If any of these errors occur, turn the unit power OFF and restart it. If the power cannot be turned OFF, remove the batteries and disconnect the USB connection. If the error message continues to appear, please contact a TASCAM Service Center.
FILE OPERATION FAILED	
CAN'T SAVE DATA	
PLAYER ERROR	
DEVICE ERROR	
WRITING FAILED	
SYS ROM ERR	
SYSTEM ERR 50	
SYSTEM ERROR 1	
SYSTEM ERROR 2	
SYSTEM ERROR 3	
SYSTEM ERROR 4	
SYSTEM ERROR 5	
SYSTEM ERROR 6	
SYSTEM ERROR 7	
SYSTEM ERROR 8	
SYSTEM ERROR 9	

10 – Troubleshooting

If you are having trouble with the operation of this unit, please try the following before seeking repair. If these measures do not solve the problem, please contact the store where you bought the unit or a TASCAM Service Center.

■ Power will not turn ON.

- Confirm that the batteries are not dead.
- Confirm that the batteries are installed with the correct +/– orientations.

■ The unit is not responding to operations.

- Is the ⏻/❙/HOLD switch set to HOLD?

■ The microSD card is not recognized.

- Confirm that the microSD card is securely inserted.

■ Playback is not possible.

- If it is a WAV file, confirm that it is of a compatible sampling frequency.
- If it is an MP3 file, confirm that it is of a compatible bit-rate.

■ No sound is output.

- Are headphones connected?
- Is the SPEAKER set to OFF?
- Confirm that the monitoring system is connected correctly.
- Is the volume level of the connected monitoring system minimized?
- Is the output level of this unit minimized?

■ Recording is not possible.

- Reconfirm connections.
- Reconfirm the input setting.
- Check whether the recording level is too low.
- Confirm that the microSD card is not full.
- Confirm that the maximum number of files has not been reached.

■ The recording level is low.

- Is the input level setting too low?
- Is the gain setting too low?
- Is the output level of a connected external device too low?

■ The sound I am trying to record is distorted.

- Is the input level higher than necessary?

■ The playback sound is unnatural.

- Confirm that the playback speed has not been changed

■ I cannot erase a file.

- Confirm that the file is not read-only (using a computer).

■ Files on this device do not appear on a computer.

- Confirm that the USB port of the unit is connected with the computer.
- Is the unit recording or in recording standby?

11 – Specifications

Recording media and formats

Recording media

microSD card (64 MB – 2 GB)

microSDHC card (4 GB – 32 GB)

Recording and playback formats

WAV: 44.1/48/96 kHz, 16/24-bit (stereo or monaural)

MP3: 44.1 kHz, 32/64/96/160 kbps (monaural), 64/128/192/320 kbps (stereo)

Input and output

Audio input and output

MIC/EXT. IN jack

Connector: 1/8” (3.5-mm) stereo mini-jack

When set to MIC

Input impedance: 200 kΩ

Nominal input level:

LOW: –45 dBV

HIGH: –61 dBV

Maximum input level:

LOW: –29 dBV

HIGH: –45 dBV

When set to EXT. IN

Input impedance: 200 kΩ

Nominal input level:

LOW: –19 dBV

HIGH: –31 dBV

Maximum input level:

LOW: –3 dBV

HIGH: –3 dBV

∩/LINE OUT jack

Connector: 1/8” (3.5-mm) stereo mini-jack

Output impedance: 200Ω

Nominal output level: –18 dBV

Maximum output level: –2 dBV

Maximum output: 5 mW + 5 mW (into 16Ω)

Built-in speaker

100 mW (monaural)

USB connection

USB port connector: Micro-B type

Format: USB2.0 mass storage class

Audio performance

Frequency response

20 Hz–20 kHz (44.1 kHz, EXT. IN → LINE OUT)

20 Hz–22 kHz (48 kHz, EXT. IN → LINE OUT)

20 Hz–40 kHz (96 kHz, EXT. IN → LINE OUT)

Requirements for connected computers

Windows computer

Pentium 300 MHz or faster

128 MB or more memory

USB port (USB2.0 recommended)

Macintosh computer

266 MHz Power PC, iMac, G3, G4 or faster

64 MB or more memory

USB port (USB2.0 recommended)

Recommended USB host controller

Intel chipset

Supported Operating Systems

Windows XP, Windows Vista, Windows 7

Mac OS X 10.2 or newer

Other specifications

Power supply

2 AAA batteries (alkaline or NiMH)

USB bus power

Power consumption

1 W (at Max.)

Battery operation time (when used continuously)

Alkaline batteries

About 6 hours (MP3, recording, JEITA)
About 6 hours (MP3, playback, JEITA)

Dimensions (W x H x D)

37 x 139.5 x 15 mm/
1.457 x 5.492 x 0.591 in.

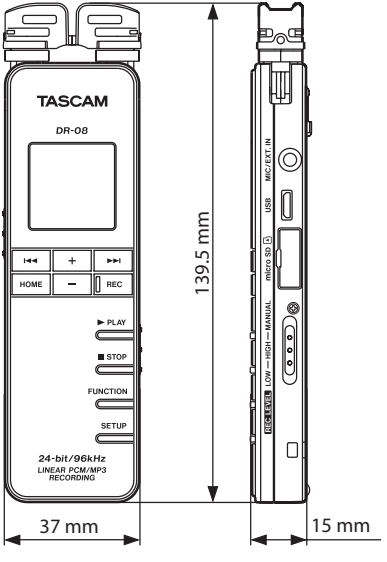
Weight

56 g/1.807 oz (without batteries)

Operating temperature range

0–40º C/32–104ºF

Dimensional drawings



- Illustrations in this manual might differ from the actual product.
- In order to improve the product, specifications and appearance could be changed without prior notice.

Notes

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Printed in China