

Help Guide

-  How to Use
-  Troubleshooting
-  List of Topics



Use this help guide when you have any questions on how to use your IC recorder.

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If you cannot find the item:

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- You can search for what you want by entering keywords in the search window at the top of the page.

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Notes on use

October 2012

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Before use

To make full use of this website, please read the following notes thoroughly. Please note that the contents of this website are subject to change without prior notice.

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The following system environments are recommended for displaying your Help Guide. You may not be able to view some of the contents on other system environments.

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- [The playback volume is low.](#)
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- Sound comes from the speaker even when the headphones are plugged in.
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Editing

- You cannot divide a file.
- You cannot move a file.
- You cannot erase a file.

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- "--:--" is displayed.
- The recording date of a file appears as "--Y--M--D" or "--:--."

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- There are fewer menu items displayed in the menu mode.
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[Parts and controls](#)

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Explains the items and icons that appear in the display window while the IC recorder is recording.

[Display during playback](#)

Explains the items and icons that appear in the display window while the IC recorder is playing back.

[Display in the HOLD status](#)

Shows the message that appears in the display window when you operate the IC recorder while the HOLD function is set to "ON."

[Display of the current date and time](#)

Explains the display that indicates the current date and time.

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[Inserting batteries](#)

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[Turning the power on](#)

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Explains how to turn the power of the IC recorder off with the HOLD·POWER ON/OFF switch.

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[Preventing unintentional operations \(HOLD\)](#)

Explains how to disable all button operations to prevent unintentional operations.

[Releasing the HOLD function](#)

Explains how to release the HOLD function to enable button operations.

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[Recording sound from the built-in microphone](#)

Explains the basic recording procedures using the built-in microphone.

[About the remaining memory indicator](#)

Explains the remaining memory indicator to confirm the remaining memory of the IC recorder.

[Monitoring sound while recording](#)

Explains how to monitor the sound while recording with the headphones.

[Various operations while recording](#)

Introduces various operations you can perform while recording.

[Dividing a file during recording](#)

Explains how to divide a file into two parts during recording.

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[Tips for better recording](#)

Introduces hints for recording in various situations.

[Starting to record automatically in response to sound – the VOR function](#)

This function starts and pauses recording automatically according to the volume of the sound (input level) that the IC recorder detects.

[Selecting the recording mode \(MODE\)](#)

Explains how to set the recording mode for the file to be recorded.

[Selecting the microphone sensitivity \(SENS\)](#)

Explains how to set the microphone sensitivity for the built-in microphone.

[Adding a recording to a previously recorded file \(ADD\)](#)

Explains how to add a recording to the file during playback.

[Adding an overwrite recording during playback \(OVER\)](#)

Explains how to add an overwrite recording to the file during playback.

[Recording with an external microphone](#)

Explains how to record with an external microphone that is connected to the IC recorder.

[Recording from external equipment](#)

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Introduces various operations you can perform while playing.

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Various operations/settings

[Reducing noise in the playback sound and making the human voice clearer \(N-CUT\)– the noise cut function](#)

Explains how to reduce ambient noise, which makes the human voice clearer when playing back a file.

[Adjusting the playback speed – the DPC \(Digital Pitch Control\) function](#)

Explains how to adjust the playback speed in a range from 0.50 times to 2.00 times.

[Playing back a file repeatedly](#)

Explains how to play back a file repeatedly.

[Playing back all files in a folder continuously \(CONT\) – the continuous play](#)

Explains how to play back all files in a folder continuously.

[Listening with better sound quality](#)

Explains how you can listen to a file with the high quality sound by connecting headphones or speakers to the IC recorder.

[Searching forward/backward during playback \(Cue/Review\)](#)

Explains how to find a desired point in the file by cueing/reviewing during playback.

[Searching the desired point quickly \(EASY-S\) – the Easy search function](#)

Explains how to quickly locate the point at which you wish to start playback.

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[Playing back a file at a desired time with an alarm \(ALARM\)](#)

Explains how to start playing back a file with alarm sound at a desired time you set.

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Erasing files

[Erasing a file](#)

Explains how to erase a file stored on the IC recorder.

[Erasing all files in a folder \(ERASE ALL\)](#)

Explains how to erase all files in a selected folder at once.

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[Moving a file to a different folder \(MOVE\)](#)

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[Dividing a file](#)

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Protecting files

[Protecting a file \(LOCK\)](#)

Explains how to protect a file so that you cannot erase or edit it.

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Using menus

[Using the menu](#)

Explains how to set menus.

[Menu list](#)

Introduces the menus and in which operation mode the IC recorder can make changes to the menu. It also includes a link to each menu topic.

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Menu items

[Reducing noise when recording \(LCF\) – the Low Cut Filter function](#)

Explains how to reduce ambient noise or the roaring noise from wind, which allows you to record a file more clearly.

[Selecting the display mode \(DISPLAY\)](#)

Explains how to set which information is to be displayed (elapsed time, remaining time, etc.) in the display window.

[Selecting the clock display \(HOUR\)](#)

Explains how to select from 12 hour-clock or 24 hour-clock.

[Turning the beep sound on or off \(BEEP\)](#)

Explains how to turn the operation beep on or off.

[Turning the operation indicator on or off \(LED\)](#)

Explains how to turn the operation indicator on or off while you are operating the IC recorder.

[Resetting all menu items to the default setting \(MENU INIT\)](#)

Changes menu settings back to the default settings. (Some of the menu items such as the clock setting, will not be changed.)

[Checking the system information \(SYSTEM\)](#)

Explains how to check the version number of the software.

[Formatting the memory \(FORMAT\)](#)

Explains how to format the memory, erasing all files and changing the folder structure back to the initial status.

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[Design and specifications](#)

Shows the specifications of the IC recorder (such as dimensions and weight, the size of the memory, etc.).

[Battery life](#)

Shows the battery life for alkaline batteries and rechargeable batteries, in each file format.

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[Precautions](#)

Explains notes on operations, such as the places you use the IC recorder, and information on handling or maintenance.

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[Listening for a Lifetime](#)

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Noise

The recorded file is noisy and you want to record with less noise in your recording.

A rustling noise is recorded.

A buzzing or humming noise is recorded.

Noise is recorded when you record a file using an external microphone (not supplied).

Noise is heard when you listen to the file using headphones.

Noise is heard in the playback even though the noise cut function is active.

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Power

The IC recorder cannot be turned on. The IC recorder does not operate, even if you press any button.

The IC recorder cannot be turned off.

The IC recorder cannot be turned on.

The IC recorder is powered off automatically.

The battery life is short.

There is no battery power remaining after you have left the batteries inserted for long time without using the IC recorder.

The battery life of the rechargeable batteries is short.

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[You cannot record a file.](#)

[Recording is interrupted.](#)

[You cannot add a recording or an overwrite recording.](#)

[The VOR function does not work.](#)

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[The playback volume is low.](#)

[No sound comes from the speaker.](#)

[Sound comes from only one channel.](#)

[Sound comes from the speaker even when the headphones are plugged in.](#)

[Playback speed is too fast or too slow.](#)

[Playback sound is not good when a recorded file is played back.](#)

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[You cannot divide a file.](#)

[You cannot move a file.](#)

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Clock

“--:--” is displayed.

The recording date of a file appears as “--Y--M--D” or “--:--.”

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Display

[There are fewer menu items displayed in the menu mode.](#)

[“ACCESS” display does not disappear.](#)

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Files

“FULL” is displayed and you cannot start recording.

“FILE FULL” is displayed and you cannot operate the IC recorder.

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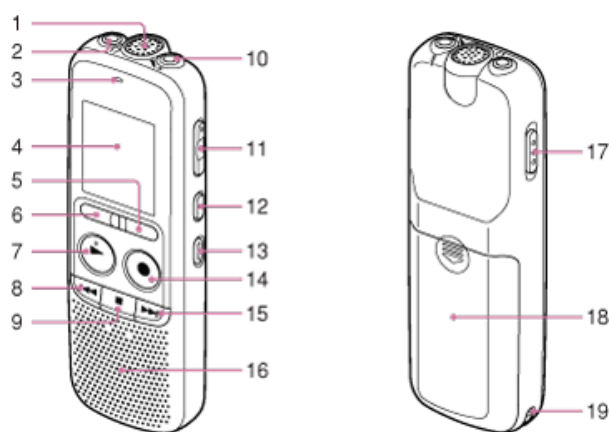
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Parts and controls



1. Built-in microphone
2. (headphone) jack
3. Operation indicator
4. Display window
5. FOLDER button
6. MENU button
7. PLAY/ENTER button (*)
8. (review/fast backward) button
9. (stop) button
10. (microphone) jack (PLUG IN POWER) (*)
11. VOL (volume) -/+ button (*)
12. DIVIDE button
13. ERASE button
14. REC/PAUSE (record/pause) button
15. (cue/fast forward) button
16. Speaker
17. HOLD·POWER ON/OFF switch
18. Battery compartment
19. Strap hole (A strap is not supplied.)

* These buttons and the jack have a tactile dot. Use it as a reference point for operations, or to identify each terminal.

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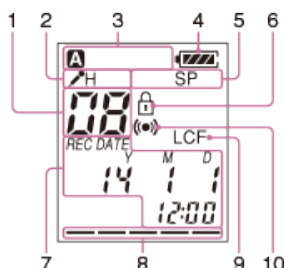
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Display when stopped



Note

- The window shown above displays indications, numbers or items for explanatory purposes. The actual window may differ from those displayed here.

- File number indicator
Displays the file number you have selected.
- Microphone sensitivity indicator
Displays the level of the microphone sensitivity that has been set in the menu.
 H: High
 L: Low
- Folder indicator
Displays the folder you have selected.
- Battery indicator
Displays the remaining battery power.
- Recording mode indicator
The recording mode selected in the menu is displayed.
SHQ: Super high quality mode
HQ: High quality mode
SP: Standard play mode
LP: Long play mode
- Protect indicator
Appears when the protection is set for a file.
- REC DATE (recorded date) indicators
Appears when the recorded date and time is displayed on the counter (with the "REC DATE" indicator).
- Remaining memory indicator
Displays the remaining memory and decreases one by one during recording.
- LCF (Low Cut Filter) indicator
Appears when "LCF" is set to "ON" in the menu.
- Alarm indicator
Appears when the alarm is set in a file.

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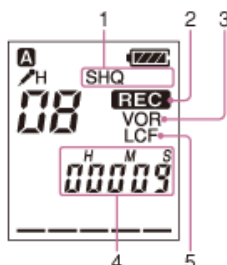
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Display when recording



Note

- The window shown above displays indications, numbers or items for explanatory purposes. The actual window may differ from those displayed here.

- Recording mode indicator**
Displays the recording mode of the currently recorded file.
SHQ: Super high quality mode
HQ: High quality mode
SP: Standard play mode
LP: Long play mode
- REC (recording) indicator**
Appears while the IC recorder is recording.
- VOR (Voice Operated Recording) indicator**
Appears while the IC recorder is recording with the VOR function.
You can set "VOR" to "ON" in the menu.
- Counter indication**
You can select the display mode in the menu.
ELAPSE: Displays the elapsed recording time of a file.
REMAIN: Displays the remaining recording time of a file.
- LCF (Low Cut Filter) indicator**
Appears when "LCF" is set to "ON" in the menu.

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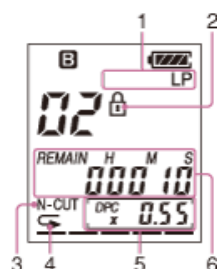
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Display during playback



Note

- The window shown above displays indications, numbers or items for explanatory purposes. The actual window may differ from those displayed here.

1. Recording mode indicator

When the IC recorder is playing a file, the recording mode of the file is displayed.

SHQ: Super high quality mode

HQ: High quality mode

SP: Standard play mode

LP: Long play mode

2. Protect indicator

Appears when the protection is set for a file.

3. N-CUT (Noise Cut) indicator

Appears when the noise cut function is active. You can set "N-CUT" to "ON" in the menu.

4. (repeat play) indicator

Appears when a file is played back repeatedly.

5. DPC (Digital Pitch Control) indicator

Appears when the DPC (Digital Pitch Control) function is set in the menu. You can adjust the playback speed in the menu.

6. Counter indication

You can select the display mode in the menu.

ELAPSE: Displays the elapsed playback time of a file.

REMAIN: Displays the remaining playback time of a file.

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Display in the HOLD status



Note

- The window shown above displays indications, numbers or items for explanatory purposes. The actual window may differ from those displayed here.

1. HOLD indicator

Flashes when you attempt to operate the IC recorder while the HOLD function is set to prevent unintentional operations. All button operations are disabled.

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Related Topic

- [Preventing unintentional operations \(HOLD\)](#)
- [Releasing the HOLD function](#)

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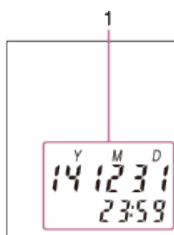
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Display of the current date and time

**Note**

- The window shown above displays indications, numbers or items for explanatory purposes. The actual window may differ from those displayed here.

1. Current date and time

Displays the current date (year, month, and day) and the current time (hour and minutes) while you press and hold  (stop) in the stop mode. When you release the button, after about one second the window returns to the stop mode display. e.g.: 14Y12M 31D 23:59 (December 31, 2014, 11:59 p.m.)

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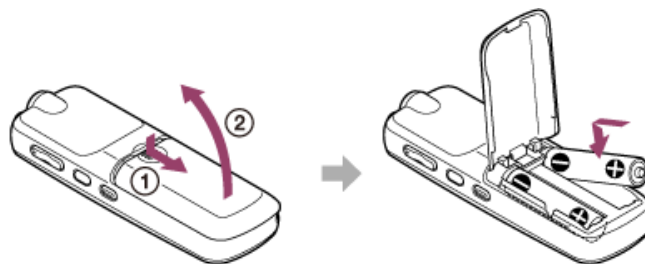
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Inserting batteries

1. Insert batteries.

Slide and lift the battery compartment lid, insert two LR03 (size AAA) alkaline batteries (supplied) or two NH-AAA rechargeable batteries (not supplied) with correct polarity, and close the lid.



Note

- Do not use manganese batteries for this IC recorder.
- When replacing the batteries, be sure to replace both batteries with new ones.
- When you are not going to use the IC recorder for a long time, remove the batteries to prevent damage from battery leakage and corrosion.

Hint

- The battery indicator in the display window shows the battery condition.
 - : "LOW BATT" flashes. Replace the old batteries with new ones.
 - : "LOW BATT" flashes and the IC recorder will stop operation.
- When replacing the batteries, files recorded or alarm settings are not erased even when you remove the batteries.

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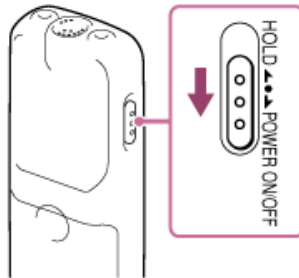
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Turning the power on

1. Slide and hold the HOLD·POWER ON/OFF switch in the direction of “POWER ON/OFF” until the window display appears.



“ACCESS” is displayed, and the IC recorder is turned on.

Hint

- The remaining recording time will be displayed for about 3 seconds, and then the display window returns to the stop mode display.
- When you are not going to use the IC recorder for a long time, we recommend to turn off the IC recorder.
- When the IC recorder is in the stop mode, and you leave the IC recorder without attempting an operation for approximately 10 minutes, the auto power off function will take effect.

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Related Topic

- [Turning the power off](#)

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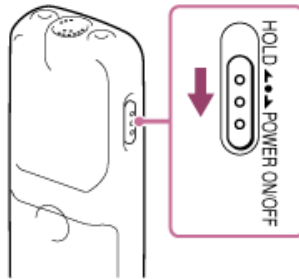
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Turning the power off

1. Slide and hold the HOLD·POWER ON/OFF switch in the direction of “POWER ON/OFF” until “OFF” is displayed.
The IC recorder is turned off.



Hint

- When the IC recorder is in the stop mode, and you leave the IC recorder without attempting an operation for approximately 10 minutes, the auto power off function will take effect.

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Related Topic

- [Turning the power on](#)

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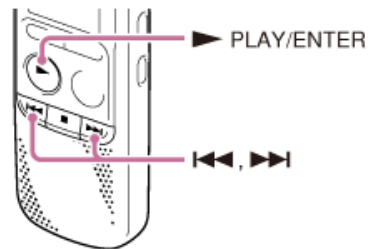
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Setting the clock

You need to set the clock to use the alarm function or record the date and time. When you insert batteries and turn the power on, the year section begins to flash in the clock setting display window.



1. Set year, month, day, hour and minute.

Press **REWIND** or **F.WIND** to set the year (the last two digits of the year), and then press **PLAY/ENTER**.

Repeat this procedure to set month, day, hour, and minute in sequence. You can move the cursor to the year, month, day, hour and minute by pressing **REWIND** or **F.WIND**.

When you set the minute and press **PLAY/ENTER**, the clock reflects the setting.



When you finish setting the clock, the remaining recording time will be displayed for about 3 seconds, and then the display window returns to the stop mode display.

Note

- The clock setting display appears every time you replace batteries, and the approximate time when you last operated the unit before replacing the batteries is displayed. You must set the clock to the current time again.
- If you do not press **PLAY/ENTER** within 1 minute of entering the clock setting data, the clock setting mode is canceled and the window will return to the display of the stop mode.
- The time is displayed either in 12-Hour with "AM" or "PM," or in 24-Hour, depending on the "HOUR" setting in the menu.

Hint

- You can set the clock using the menu as well.



Related Topic

- [Setting the clock using the menu](#)
- [Selecting the clock display \(HOUR\)](#)



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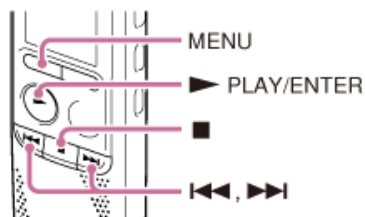
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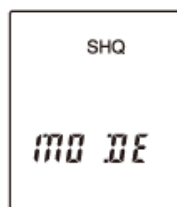
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Setting the clock using the menu

While the IC recorder is stopped, you can set the clock using the menu.



1. Press MENU to enter the menu mode.
The menu mode window will be displayed.



2. Press  or  to select "SET DATE," and then press PLAY/ENTER.
The clock setting window will be displayed.



3. Set year, month, day, hour and minute.
Press  or  to set the year (the last two digits of the year), and then press PLAY/ENTER.
Repeat this procedure to set month, day, hour, and minute in sequence. You can move the cursor to the year, month, day, hour and minute by pressing  or .When you set the minute and press PLAY/ENTER, the clock reflects the setting.
4. Press  (stop) to exit the menu mode.

Note

- If you do not press  within 1 minute of entering the clock setting data, the clock setting mode is canceled and the window will return to the display of the stop mode.
- The time is displayed either in 12-Hour with "AM" or "PM," or in 24-Hour, depending on the "HOUR" setting in the menu.

Related Topic

- [Selecting the clock display \(HOUR\)](#)

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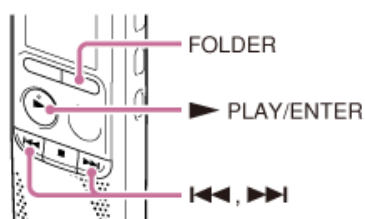
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Selecting a folder and a file

While the IC recorder is in the stop mode, you can select a folder and a file for recording, playing or editing.



1. Press FOLDER.
The folder selection window is displayed.



2. Select a folder.
Press FOLDER repeatedly to select the desired folder.

When you purchase the IC recorder, there are 5 folders already available (**A B C D E**).

3. Select a file.
Press **◀** or **▶** to select the desired file, and then press **▶**PLAY/ENTER.



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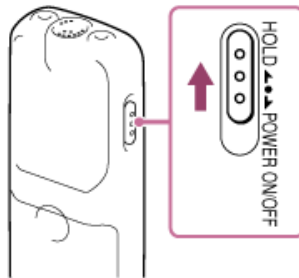
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Preventing unintentional operations (HOLD)

You can disable all the buttons (HOLD) in order to prevent unintentional operations when you carry the IC recorder, etc.

1. Slide the HOLD·POWER ON/OFF switch in the direction of “HOLD” to disable the buttons while the power is on.



“HOLD” flashes for approximately 3 seconds, indicating that all the button operations are disabled.



Note

- When the HOLD function is activated during recording, all button operations are disabled. To stop recording, cancel the HOLD function first.

Hint

- Even if the HOLD function is activated, you can stop the alarm playback by pressing any button. (You cannot stop normal playback.)

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Related Topic

- [Releasing the HOLD function](#)

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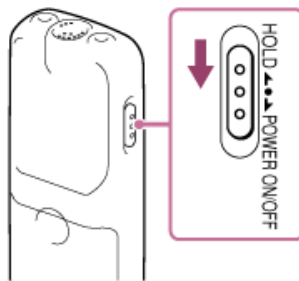
Releasing the HOLD function

If you operate buttons on the IC recorder when the HOLD function is set, "HOLD" flashes on the display.



Release the HOLD function when you operate the IC recorder.

1. Slide the HOLD·POWER ON/OFF switch towards the center.

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Related Topic

- [Preventing unintentional operations \(HOLD\)](#)

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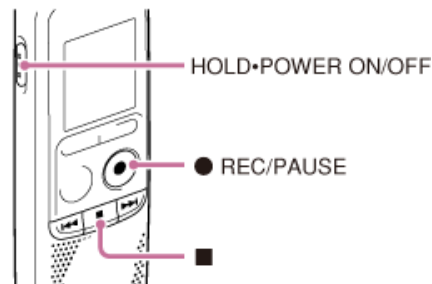
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Recording sound from the built-in microphone

The following steps are the basic recording procedures using the specified microphone sensitivity and recording mode.



Note

- Before making a recording, be sure to check the battery indicator.
- Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC recorder during recording.

Hint

- Before you start recording, we recommend you make a trial recording first, or monitor the recording.

- Slide the HOLD•POWER ON/OFF switch in the direction of “POWER ON/OFF” to turn on the IC recorder, or towards the center to release the IC recorder from the HOLD status.

The stop mode window appears.



- Select the desired folder.
- Place the IC recorder so that the built-in microphone (①) faces the direction of the source to be recorded.





4. Press ● REC/PAUSE in the stop mode.
The operation indicator (②) lights in red.



You do not need to press and hold ● REC/PAUSE while recording.
The new file will be automatically recorded as the last file in the current folder.

5. Press ■ (stop) to stop recording.
“ACCESS” appears and the IC recorder stops at the beginning of the current recording file.

Note

- The IC recorder is recording data and storing it on the memory when “ACCESS” appears on the display. While the IC recorder is accessing data, do not remove the batteries. Doing so may damage the data.

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Related Topic

- [Monitoring sound while recording](#)
- [Turning the power on](#)
- [Releasing the HOLD function](#)
- [Various operations while recording](#)

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About the remaining memory indicator

The Remaining memory indicator displays current memory status of the IC recorder. During recording, the remaining memory indicator decreases one by one.



When the remaining time of recording reaches 10 minutes, the last one of the indicator flashes. When the remaining time reaches 1 minute, the counter display will be changed automatically to the remaining time display, and the remaining recording time display will also flash. To continue recording, first erase some of the files.

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Monitoring sound while recording

If you connect the headphones to the  (headphone) jack, you can monitor the recording.



1. Connect the headphones to the  (headphone) jack.
2. Press VOL -/+ to adjust the monitoring volume.
Monitoring volume does not affect to the recording level.

Note

- When the cord of the headphones touches the IC recorder while you are monitoring the recording, the IC recorder may record a rustling noise. The rustling noise can be reduced by holding the cord away from the IC recorder.

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- [Recording sound from the built-in microphone](#)

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Various operations while recording

You can perform the following operations while recording.

To pause recording

Press  REC/PAUSE.

During recording pause, the operation indicator flashes in red and “PAUSE” begins to flash in the display window.

(An hour after you pause recording, recording pause is automatically released and the IC recorder enters the stop mode.)

To release pause and resume recording

Press  REC/PAUSE again.

Recording resumes from that point. (To stop recording after pausing recording, press  (stop).)

To review the current recording instantly

Press  PLAY/ENTER.

Recording stops and playback starts from the beginning of the file just recorded.

To review during recording

Press and hold  during recording or recording pause.

Recording stops and you can search backwards while listening to fast playback sound. After you release , playback starts from that point.

Hint

- Files recorded using this IC recorder will be recorded as MP3 files.
- You can record up to 99 files in each folder.

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Related Topic

- [Recording sound from the built-in microphone](#)

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Dividing a file during recording

You can divide a file during recording so that the file is divided into two parts, and a new file number is added to the newer part of the divided file.

Once a file is divided, you cannot re-combine the divided files.

1. Press DIVIDE during recording.



"DIVIDE" and a new file number flash in the display window and the new file number is added at the point you pressed the button. The message will be recorded as two files, however recording continues without stopping.

Note

- When you divide a file into two, at the point of division, the end of the first file and the beginning of the second file may be interrupted.
- If you divide files too frequently while the IC recorder is recording them, the following phenomenon may occur: The operation indicator keeps flashing, and you cannot operate the IC recorder for a certain period. This is not a malfunction. Wait until the operation indicator goes off.

Hint

- You can divide the currently recorded file during recording pause.

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Tips for better recording

Recording at a meeting

By placing the IC recorder on a handkerchief, etc. substituting for a stand, you can record with clear, low-noise sound, without vibration noise from the desk.



Recording a voice note

By placing the IC recorder close to one side of your mouth, you can prevent breathing on the built-in microphone, and record with clear sound.



Recording an interview

Place the IC recorder so that the built-in microphone faces the interviewee.



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Starting to record automatically in response to sound – the VOR function

You can set the VOR (Voice Operated Recording) function to “ON,” to make the IC recorder start recording when the IC recorder detects sound, and pause when no sound is heard, eliminating recording during soundless periods.

1. In the stop or recording mode, press MENU to enter the menu mode.
2. Press  or  to select “VOR,” and then press PLAY/ENTER.



3. Press  or  to select “ON,” and then press PLAY/ENTER.
“VOR” is set to “OFF” when you purchase the IC recorder.
4. Press  (stop) to exit the menu mode.
5. Press  REC/PAUSE.
“VOR” and “REC” appear in the display window.
The recording pauses when no sound is detected and “VOR” and “PAUSE” flash.
When the IC recorder detects sound again, the recording starts again.

Descriptions of menu items

You can select one of the menu items available.

ON:

The IC recorder starts recording when it detects sound.

OFF:

The VOR function does not work.

(Initial setting)

Note

- The VOR function is affected by the sound around you. Set “SENS” (microphone sensitivity) in the menu according to the recording conditions. If recording is not satisfactory after you have changed the “SENS” setting, or for an important recording, set “VOR” to “OFF” in the menu.

Hint

- To cancel the VOR function, set “VOR” to “OFF” in step 3.

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Related Topic

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- [Recording sound from the built-in microphone](#)
- [Using the menu](#)

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Selecting the recording mode (MODE)

You can set the recording mode for the files to be recorded. Set this menu item before you start recording.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "MODE," and then press PLAY/ENTER.



3. Press  or  to select desired recording mode, and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

SHQ

Super high quality mode (MP3 192 kbps) (Initial setting)

HQ

High quality mode (MP3 128 kbps)

SP

Standard play mode (MP3 8 kbps)

LP

Long play mode (MPEG-4 HVXC 2 kbps)

Note

- You cannot set the recording mode while recording.
- The sound quality of LP mode is set for dictation. Set the microphone sensitivity to L. LP mode is not suitable for music recording. Set SHQ mode when you want to record music or record with high-quality sound.

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Selecting the microphone sensitivity (SENS)

You can set the microphone sensitivity for the built-in microphone. Set this menu item before you start recording.

1. In the stop or recording mode, press MENU to enter the menu mode.
2. Press or to select "SENS," and then press PLAY/ENTER.



3. Press or to select "H" or "L," and then press PLAY/ENTER.
4. Press (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

H:

To record a sound far away from the IC recorder or a low sound, such as recording in a spacious room.

(Initial setting)

L:

To record dictation with a microphone in front of your mouth, a sound near the IC recorder, or a loud sound.

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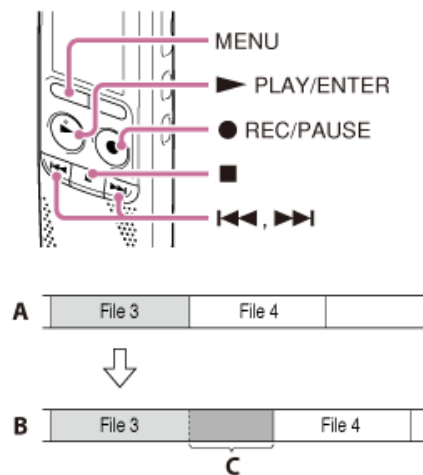
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Adding a recording to a previously recorded file (ADD)

You can add a recording to the file being played back. The added recording will be placed after the current file, and will be counted as a part of the file.



A: During playback of file 3

B: After adding a recording

C: Added recording

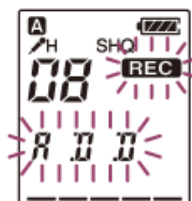
1. In the stop mode, press MENU to enter the menu mode.
2. Press or to select "REC-OP," and then press .



3. Press or to select "ON," and then press .
4. Press or to select "ADD," and then press .
5. Press (stop) to exit the menu mode.

6. When the file to be added is played back, press .

REC and "ADD" flash and the IC recorder stops in the recording pause mode.



7. While “ADD” is flashing, press ● REC/PAUSE.

The operation indicator lights in red, and the recording is added at the end of the current file.

8. Press ■ (stop) to stop recording.

Descriptions of menu items

You can select one of the menu items available.

ON:

The REC-OP function is active. You can add recording to the file being played, by selecting “ADD” after selecting “REC-OP.”

OFF:

The REC-OP function does not work.

(Initial setting)

Note

- You cannot add a recording if the remaining memory is insufficient.
- You cannot add a recording to a protected file. To add a recording, release the protection first.
- The added portion of a file will be recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

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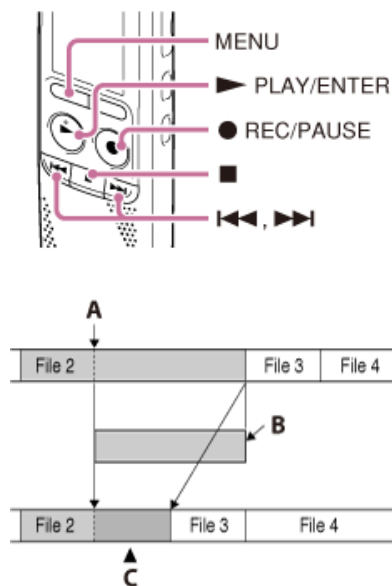
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Adding an overwrite recording during playback (OVER)

You can add an overwrite recording after a selected point in a recorded file. The remainder of the file after the selected point is deleted.



A: Starting point of overwrite recording

B: Deleted part of file 2

C: Added overwrite recording in file 2

1. In the stop mode, press MENU to enter the menu mode.
2. Press or to select "REC-OP," and then press .



3. Press or to select "ON," and then press .
4. Press or to select "OVER," and then press .
5. Press (stop) to exit the menu mode.
6. When the file to be added is played back, press REC/PAUSE.
REC and "OVER" flash and the IC recorder stops in the recording pause mode.



7. While “OVER” is flashing, press ● REC/PAUSE again.
The operation indicator lights in red and recording starts.
8. Press ■ (stop) to stop recording.

Descriptions of menu items

You can select one of the menu items available.

ON:

The REC-OP function is active. You can add overwrite recording by selecting “OVER” after selecting “REC-OP.”

OFF:

The REC-OP function does not work.

(Initial setting)

Note

- You cannot overwrite a recording if the remaining memory is insufficient.
- You cannot overwrite a recording to a protected file. To overwrite a recording, release the protection first.
- The overwritten portion of a file is recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

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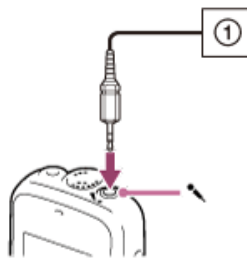
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Recording with an external microphone

You can record sound using an externally connected microphone.

When you connect a stereo microphone (not supplied) to the IC recorder and the MODE (recording mode) is set to “SHQ” or “HQ” mode, you can record sound in stereo. You can play back the sound in stereo using the stereo headphones.

1. Connect an external microphone (①) to the  (microphone) jack when the IC recorder is in the stop mode.



2. Press  REC/PAUSE to start recording.

The built-in microphone is automatically cut off.

If the input level is not strong enough, adjust the “SENS” (microphone sensitivity) setting on the IC recorder.

When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

Hint

- You can use a headphone-type electret condenser microphone (not supplied) to record sound from a telephone or a cell phone. For details on how to make the connection, refer to the operating instructions supplied with the microphone.

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Recording from external equipment

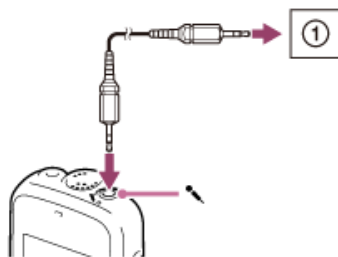
You can make music files by recording sound/music from other equipment such as a radio cassette recorder, a tape recorder, etc. connected to the IC recorder.

Hint

- Before you start recording, we recommend you make a trial recording first, or monitor the recording.

1. Connect a piece of external equipment (①) to the  (microphone) jack of the IC recorder when the IC recorder is in the stop mode.

Connect the audio output connector (stereo mini-plug) of other equipment to the  (microphone) jack of the IC recorder using an audio connecting cable (not supplied).



2. Press  REC/PAUSE to start recording.
The built-in microphone is automatically cut off and the sound from the connected piece of equipment is recorded. **REC** lights up in the display.
3. Start playback on the piece of equipment connected to the IC recorder.

Hint

- If the input level is not strong enough, connect the headphone jack (minijack, stereo) of other equipment to the  (microphone) jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder.
- To stop recording, press  (stop).

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- [Recording the playback sound of the IC recorder on external equipment](#)

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Recording the playback sound of the IC recorder on external equipment

You can record the playback sound of the IC recorder with externally connected equipment.

Before you start recording, we recommend you make a trial recording first.

1. Connect an audio connecting cable (not supplied) to the  (headphone) jack of the IC recorder and to the external input terminal of other equipment.
2. Press  PLAY/ENTER to start playback and at the same time set the connected equipment to the recording mode.
A file from the IC recorder will be recorded on the equipment connected.
3. Press  (stop) on the IC recorder and the connected equipment at the same time to stop recording.

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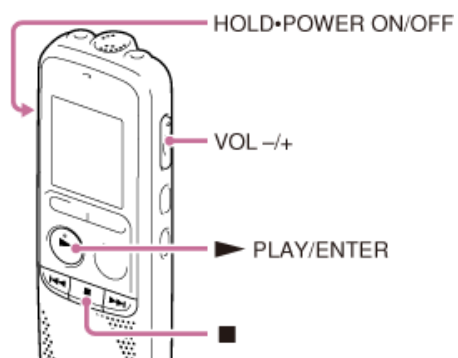
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Playing back the recorded sound



1. Slide the HOLD·POWER ON/OFF switch in the direction of “POWER ON/OFF” to turn on the IC recorder, or towards the center to release the IC recorder from the HOLD status.
The stop mode window appears.
2. Select the desired file to be played back.
If you do not select a file, the file just recorded will be played back.
3. Press PLAY/ENTER.
Playback starts, and the operation indicator lights in green.
4. Press VOL -/+ to adjust the volume.

Hint

- Press (stop) to stop playback.

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- [Turning the power on](#)
- [Releasing the HOLD function](#)
- [Selecting a folder and a file](#)
- [Various operations while playing](#)

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Various operations while playing

You can perform the following operations while the IC recorder is playing.

To stop at the current position (Playback Pause function)

Press PLAY/ENTER. To resume playback from that point, press PLAY/ENTER again.

To go back to the beginning of the current file

Press once.

To go back to previous files

Press repeatedly.

(During the stop mode, keep the button pressed to go back the files continuously.)

To skip to the next file

Press once.

To skip to the succeeding files

Press repeatedly.

(During the stop mode, keep the button pressed to skip the files continuously.)

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Related Topic

- [Playing back the recorded sound](#)
- [Searching the desired point quickly \(EASY-S\) – the Easy search function](#)

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Reducing noise in the playback sound and making the human voice clearer (N-CUT)– the noise cut function

The noise cut function reduces ambient noise other than the human voice, which makes the human voice clearer when you listen to the playback sound.

1. In the stop or playback mode, press MENU to enter the menu mode.
2. Press  or  to select “N-CUT,” and then press PLAY/ENTER.



3. Press  or  to select “ON,” and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

The noise cut level will be adjusted automatically according to the surrounding sound level.

OFF:

The noise cut function will be turned off.
(Initial setting)

Note

- The effect of the noise cut function may be different depending on the condition of the recorded voice.
- When playing back a recorded file in good sound quality, make sure to set the noise cut function to “OFF.”
- The noise cut function works when you listen to sound through the headphones. It does not work when you play back sound using the built-in speaker.

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Adjusting the playback speed – the DPC (Digital Pitch Control) function

You can adjust the playback speed in a range from 0.50 times to 2.00 times. The file is played back in natural tones by means of a digital processing function.

1. In the stop or playback mode, press MENU to enter the menu mode.
2. Press or to select "DPC," and then press PLAY/ENTER.



3. Press or to select "ON," and then press PLAY/ENTER.
4. During playback, press or to adjust the playback speed.
The speed decreases by 0.05 times (from $\times 0.50$ to $\times 1.00$).
The speed increases by 0.10 times (from $\times 1.00$ to $\times 2.00$).
When you press and hold each button, you can change the speed continuously.
The playback speed is set to " $\times 0.70$ " when you purchase the IC recorder.

Descriptions of menu items

You can select one of the menu items available.

ON:

You can adjust the playback speed in a range from 0.50 times to 2.00 times.

OFF:

The DPC function does not work.

(Initial setting)

Hint

- To resume normal playback speed, set "DPC" to "OFF" in step 3.

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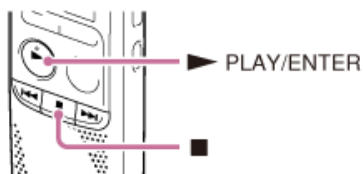
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Playing back a file repeatedly



1. During playback, press and hold PLAY/ENTER until " (repeat) appears.
The selected file will be played back repeatedly.

Hint

- To resume normal playback, press PLAY/ENTER or  (stop).

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Playing back all files in a folder continuously (CONT) – the continuous play

You can play back all files in a folder continuously.

1. In the stop or playback mode, press MENU to enter the menu mode.
2. Press  or  to select "CONT," and then press PLAY/ENTER.



3. Press  or  to select "ON," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

You can play back all files in a folder continuously.

OFF:

The CONT function does not work.

(Initial setting)

Hint

- To resume normal playback, set "CONT" to "OFF" in step 3.

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Listening with better sound quality



- Listening to the sound with the headphones:
Connect the headphones to the  (headphone) jack. The built-in speaker will be automatically disconnected.
- Listening to the sound from an external speaker:
Connect an active or passive speaker (not supplied) to the  (headphone) jack.

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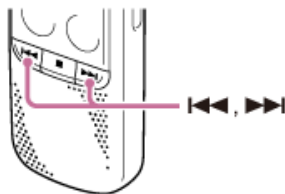
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Searching forward/backward during playback (Cue/Review)



- To search forward (Cue):
Press and hold  during playback and release it at the point you wish to resume playback.
- To search backward (Review):
Press and hold  during playback and release it at the point you wish to resume playback.

The IC recorder searches at slow speed with playback sound. This is useful to check one word forward or back. Then, if you press and hold the button, the IC recorder starts to search at higher speed.

When files are played back or searched to the end of the last file

- When you play back or fast play back to the end of the last file, “END” flashes for approximately 5 seconds.
- When “END” and the operation indicator go off, the IC recorder will stop at the beginning of the last file.
- If you press and hold  while “END” is lit, the files are played back rapidly, and normal playback will start at the point you release the button.

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Searching the desired point quickly (EASY-S) – the Easy search function

The Easy Search function allows you to quickly locate the point at which you wish to start playback.

This function is useful for locating a specific point in a long recording such as at a meeting.

1. In the stop or playback mode, press MENU to enter the menu mode.
2. Press  or  to select "EASY-S," and then press PLAY/ENTER.



3. Press  or  to select "ON," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

You can go back for approximately 3 seconds by pressing  once, and can go forward for approximately 10 seconds by pressing  once during playback. This function is useful when attempting to locate desired point in a long recording.

OFF:

The easy search function does not work. When you press  or , a file will be moved forward or backward.

(Initial setting)

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Playing back a file at a desired time with an alarm (ALARM)

You can sound an alarm and start playback of a selected file at a desired time. You can have a file played back on a specified date, once every week, or at the same time every day. You can set an alarm for a file.

1. Select the file you want to play back with an alarm.
2. Enter the alarm setting mode.
 1. In the stop mode, press MENU to enter the menu mode.
 2. Press  or  to select "ALARM," and then press PLAY/ENTER.



3. Press  or  to select "ON," and then press PLAY/ENTER.
3. Set the alarm date and time.
 1. Press  or  to select "DATE," a day of the week, or "DAILY," and then press PLAY/ENTER.
 2. Do one of the following operations.

When you select "DATE," set the year, month, day, hour, and minute in sequence, as described in "[Setting the clock.](#)"

When you select a day of the week or "DAILY," press  or  to set the hour, and then press PLAY/ENTER. Press  or  to set the minute, and then press PLAY/ENTER.
 4. Press  or  to select a favorite alarm pattern, and then press PLAY/ENTER.
 - "ALARM ON," is displayed.
 5. Press  (stop) to exit the menu mode.
 - The setting process is finished and " (alarm indicator) appears in the display window.

When the set date and time comes, the IC recorder is automatically turned on and "ALARM" is displayed in the display window. Then the alarm and the selected file will be played back using the selected alarm pattern. When the playback ends, the IC recorder will stop automatically. (When the alarm pattern is set to "B-PLAY" or "PLAY," the IC recorder will stop at the beginning of the selected file.)

Descriptions of the alarm pattern

You can select one of the menu items available.

B-PLAY:

The selected file is played back after the alarm sounds.

BEEP:

Only the alarm sounds.

PLAY:

Only the selected file is played back.

Note

- An alarm set will not sound during recording. The alarm will start playing after you stop the recording.

Hint

- To change the alarm setting, select the file you want to change its alarm setting, and then follow steps 2 through 5.
- To cancel the alarm setting, follow steps 1 and 2. In step 2, select "OFF" (instead of "ON") and press ►PLAY/ENTER. The alarm will be canceled and the alarm indicator will disappear from the display window.
- To stop the alarm playback, press any button other than VOL –/+ while the alarm sound is heard. If the HOLD function is activated, you can stop the alarm playback by pressing any button.
- The alarm sounds even if you set "BEEP" to "OFF" in the menu.

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Related Topic

- [Setting the clock](#)

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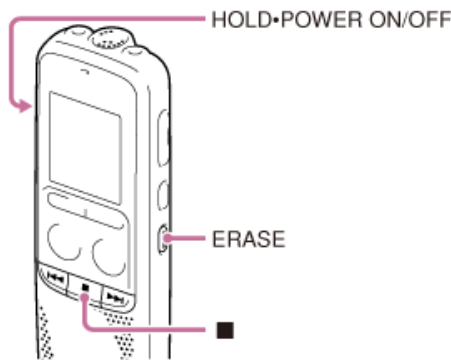
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Erasing a file

You can select a file and erase it.

Note

- Once a file has been erased, you cannot retrieve it.
- You cannot erase a protected file. To erase the file, release the protection first, and then erase the file.



1. Slide the HOLD-POWER ON/OFF switch in the direction of "POWER ON/OFF" to turn on the IC recorder, or towards the center to release the IC recorder from the HOLD status.
The stop mode window appears.
2. Select the file you want to erase when the IC recorder is in the stop or playback mode.
3. Erase a selected file.
When the IC recorder is in the stop mode, press and hold ERASE.
When the IC recorder is in the playback mode, press ERASE.



4. Press ERASE.
"ACCESS" appears in the display window and the selected file will be erased.
When a file is erased, the remaining files will advance so that there will be no space between files.

Hint

- To cancel erasing, press ■ (stop) in step 3.
- To erase a part of a file, divide the file into two files first, and then proceed with

steps 3 through 4.

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Related Topic

- [Turning the power on](#)
- [Releasing the HOLD function](#)
- [Selecting a folder and a file](#)
- [Dividing a file](#)
- [Protecting a file \(LOCK\)](#)

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Erasing all files in a folder (ERASE ALL)

You can erase all files in the selected folder.

Note

- Once a file has been erased, you cannot retrieve it.
- You cannot erase a protected file. To erase the file, release the protection first, and then erase the file.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "ERASE ALL," and then press PLAY/ENTER.



3. Press PLAY/ENTER.
"ACCESS" appears in the display window and all files in the selected folder will be erased.
4. Press  (stop) to exit the menu mode.

Hint

- To cancel erasing, press  (stop) in step 2.

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Related Topic

- [Protecting a file \(LOCK\)](#)
- [Selecting a folder and a file](#)
- [Erasing a file](#)

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Moving a file to a different folder (MOVE)

Moves the selected file to the selected folder.

1. Select the file you want to move.
2. In the stop mode, press MENU to enter the menu mode.
3. Press  or  to select "MOVE," and then press PLAY/ENTER.



4. Press  or  to select the folder that you want to move the file into, and then press PLAY/ENTER.
The file is moved to the last position in the destination folder.
When you move a file to another folder, the original file in the previous folder will be erased.
5. Press  (stop) to exit the menu mode.

Note

- You cannot move a protected file. To move the file, release the protection first, and then move the file.
- If 99 files have been recorded in the folder to which you want to move a file, you cannot move it.

Hint

- To cancel moving the file, press  (stop) before step 4.

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Related Topic

- [Protecting a file \(LOCK\)](#)
- [Selecting a folder and a file](#)

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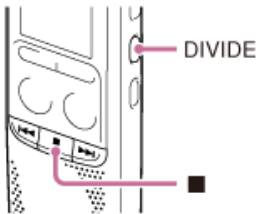
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Dividing a file

You can divide a file, so that the file is divided into two parts and new file numbers are added to the divided file names. By dividing a file, you can easily find the point from which you want to play back when you make a long recording such as at a meeting. You can divide a file until the total number of files in the folder reaches the maximum number allowed.



1. Play back the file you want to divide.
2. Press DIVIDE at the point you want to divide.



The current file number and “DIVIDE” flash.

3. Press DIVIDE again.
“ACCESS” appears, and the new file number is added to the divided file. The file numbers of the following files will increase by one.

A	File 1	File 2	File 3	
		▲		
B	File 1	File 2	File 3	File 4
		▼		

- A. Before dividing a file: ▲ is the position you want to divide.
B. After dividing a file: The file numbers are incremented.

- Note
- You cannot divide a protected file. To divide the file, release the protection first.
- Hint
- To cancel dividing, press ■ (stop) in step 2.

Related Topic

- [Protecting a file \(LOCK\)](#)

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Protecting a file (LOCK)

To prevent a file from being accidentally erased or edited, you can protect an important file. A protected file is marked with the (protect) indicator and is regarded as a read-only file you cannot erase or edit.

1. Display the file which you want to protect.
2. In the stop mode, press MENU to enter the menu mode.
3. Press or to select "LOCK," and then press PLAY/ENTER.



4. Press or to select "ON," and then press PLAY/ENTER.
The file is protected. A protected file is marked with the (protect) indicator.
5. Press (stop) to exit the menu mode.

Hint

- To release protection, select the protected file, and then proceed with steps 2 through 5. Select "OFF" and then press PLAY/ENTER in step 4.
- To cancel setting the protection, press (stop) in step 3.

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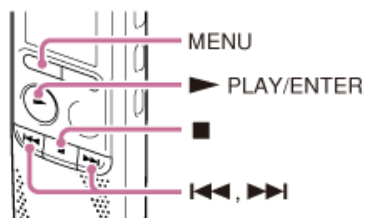
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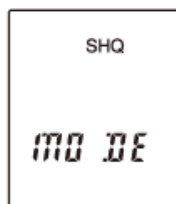
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Using the menu



1. Press MENU to enter the menu mode.
The menu mode window will be displayed.



2. Press ◀◀ or ▶▶ to select a menu item for which you want to make setting, and then press ►PLAY/ENTER.
3. Press ◀◀ or ▶▶ to select the setting that you want to set, and then press ►PLAY/ENTER.
4. Press ■ (stop) to exit the menu mode.

Note

- If you do not press any button for 1 minute, the menu mode is automatically canceled and the window will return to the normal display.

Hint

- To return to the previous window, press MENU during menu mode.
- To exit the menu mode, press ■ (stop) or MENU.

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Menu list

The list below shows the menu items and in which operation mode the IC recorder can make changes to the menus.

- MODE: Stop mode
[Selecting the recording mode \(MODE\)](#)
- SENS: Stop mode, Recording mode
[Selecting the microphone sensitivity \(SENS\)](#)
- LCF: Stop mode, Recording mode
[Reducing noise when recording \(LCF\) – the Low Cut Filter function](#)
- VOR: Stop mode, Recording mode
[Starting to record automatically in response to sound – the VOR function](#)
- REC-OP (ADD): Stop mode
[Adding a recording to a previously recorded file \(ADD\)](#)
- REC-OP (OVER): Stop mode
[Adding an overwrite recording during playback \(OVER\)](#)
- DPC: Stop mode, Playback mode
[Adjusting the playback speed – the DPC \(Digital Pitch Control\) function](#)
- N-CUT: Stop mode, Playback mode
[Reducing noise in the playback sound and making the human voice clearer \(N-CUT\)– the noise cut function](#)
- EASY-S: Stop mode, Playback mode
[Searching the desired point quickly \(EASY-S\) – the Easy search function](#)
- CONT: Stop mode, Playback mode
[Playing back all files in a folder continuously \(CONT\) – the continuous play](#)
- DISPLAY: Stop mode, Playback mode, Recording mode
[Selecting the display mode \(DISPLAY\)](#)
- SET DATE: Stop mode
[Setting the clock using the menu](#)
- HOUR: Stop mode
[Selecting the clock display \(HOUR\)](#)
- BEEP: Stop mode
[Turning the beep sound on or off \(BEEP\)](#)
- LED: Stop mode
[Turning the operation indicator on or off \(LED\)](#)
- MENU INIT: Stop mode
[Resetting all menu items to the default setting \(MENU INIT\)](#)
- SYSTEM: Stop mode
[Checking the system information \(SYSTEM\)](#)
- FORMAT: Stop mode
[Formatting the memory \(FORMAT\)](#)

- ALL ERASE: Stop mode
[Erasing all files in a folder \(ERASE ALL\)](#)
- MOVE: Stop mode
[Moving a file to a different folder \(MOVE\)](#)
- LOCK: Stop mode
[Protecting a file \(LOCK\)](#)
- ALARM: Stop mode
[Playing back a file at a desired time with an alarm \(ALARM\)](#)

*¹ For the European models only

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Reducing noise when recording (LCF) – the Low Cut Filter function

You can record with less noise in the recorded sound by using the “LCF” (Low Cut Filter) function.

1. In the stop or recording mode, press MENU to enter the menu mode.
2. Press **⏮** or **⏭** to select “LCF,” and then press **▶**PLAY/ENTER.



3. Press **⏮** or **⏭** to select “ON,” and then press **▶**PLAY/ENTER.
4. Press **■** (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

The IC recorder cuts low frequency noise such as projector machine sound or roaring noise from the wind, etc.

OFF:

Cancels the low cut filter function.

(Initial setting)

Hint

- Select “OFF” in step 3 to cancel the low cut filter function.

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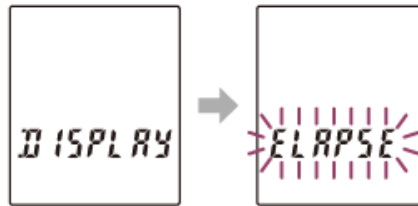
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Selecting the display mode (DISPLAY)

You can set which information to be displayed in the display window.

1. Press MENU to enter the menu mode.
2. Press or to select "DISPLAY," and then press PLAY/ENTER.



3. Press or to select "ELAPSE" or "REMAIN," and then press PLAY/ENTER.
4. Press (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ELAPSE:

Elapsed playback time of one file
(Initial setting)

REMAIN:

During stop or playback, the remaining time of one file
During recording, the available recording time

Note

- When the IC recorder is in the stop mode, recorded date and time is displayed regardless of the display setting.

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Selecting the clock display (HOUR)

You can select from 12 hour-clock or 24 hour-clock.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "HOUR," and then press PLAY/ENTER.



3. Press  or  to select "12H" or "24H," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

12H:

12:00AM = midnight, 12:00PM = noon

24H:

0:00 = midnight, 12:00 = noon

(Initial setting)

Note

- The default setting differs depending on the area you purchased your IC recorder.

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Turning the beep sound on or off (BEEP)

You can turn the operation beep on or off.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "BEEP," and then press PLAY/ENTER.



3. Press  or  to select "ON" or "OFF," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

A beep will sound to indicate that an operation has been accepted or an error has occurred.

(Initial setting)

OFF:

No beep sound will be heard.

Note

- The alarm sounds even if you set "BEEP" to "OFF" in the menu.

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Turning the operation indicator on or off (LED)

This setting turns the operation indicator on or off during operation.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "LED," and then press PLAY/ENTER.



3. Press  or  to select "ON" or "OFF," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Descriptions of menu items

You can select one of the menu items available.

ON:

During recording or playback, the operation indicator lights or flashes.
(Initial setting)

OFF:

The operation indicator does not light or flash, even during operation.

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Resetting all menu items to the default setting (MENU INIT)

You can re-set all menu items to the default setting.
However, the following menu items cannot be initialized.

- SET DATE (clock setting)
- LOCK (protected files)
- ALARM

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "MENU INIT," and then press PLAY/ENTER.



3. Press  or  to select "YES," and then press PLAY/ENTER.
4. Press  (stop) to exit the menu mode.

Hint

- To cancel the operation, select "NO" in step 3.

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Checking the system information (SYSTEM)

You can check the system information such as the version number of the software.

1. In the stop mode, press MENU to enter the menu mode.
2. Press or to select "SYSTEM," and then press PLAY/ENTER.



3. Press (stop) to exit the menu mode.

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Formatting the memory (FORMAT)

You can format the built-in memory, erasing all the data in the memory and resetting the folder structure to its default status.

Note

- If you format the built-in memory, all data stored there will be erased. (Protected files and the Help Guide will also be erased.) Note that once the files are erased, you cannot retrieve them.

1. In the stop mode, press MENU to enter the menu mode.
2. Press  or  to select "FORMAT," and then press PLAY/ENTER.



3. Press  or  to select "YES," and then press PLAY/ENTER. "ACCESS" appears and the built-in memory will be formatted.
4. Press  (stop) to exit the menu mode.

Hint

- To cancel formatting the built-in memory, select "NO" in step 3.

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Capacity (User available capacity) (*)

4 GB (approx. 3.50 GB = 3,758,096,384 Byte)

A small amount of the built-in memory is used for file management and therefore not available for user storage.

* When the built-in memory is formatted with the IC recorder.

Maximum number of folders (for a drive)

5 folders

Maximum number of files (for a folder)

99 files

Maximum number of files (for a drive)

495 files (When 5 folders are contained in a drive.)

Frequency range

SHQ: 75 Hz - 15,000 Hz

HQ: 75 Hz - 15,000 Hz

SP: 75 Hz - 3,000 Hz

LP: 100 Hz - 3,000 Hz

Microphone

Approx. 6 mm (1/4 in.) dia. monaural, omnidirectional

Speaker

Approx. 28 mm (1 1/8 in.) dia.

Input/Output

Microphone jack (minijack, stereo)

input for plug in power

Headphone jack (minijack, stereo)

output for 16 Ω impedance headphones

Playback speed control (DPC)

2.00 times - 0.50 times

Power output

300 mW

Power requirements

Two LR03 (size AAA) alkaline batteries (supplied): 3.0 V DC

Two NH-AAA rechargeable batteries (not supplied): 2.4 V DC

Operating temperature

5 °C - 35 °C (41 °F to 95 °F)

Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA) (*1)

Approx. 38.5 mm × 115.2 mm × 21.3 mm (1 9/16 in. × 4 5/8 in. × 27/32 in.)

Mass (JEITA) (*1)

Approx. 72 g (2 1/2 oz) including two LR03 (size AAA) alkaline batteries

Supplied accessories

See “Quick Start Guide” supplied with your IC recorder.

Design and specifications are subject to change without notice.

^{*1} Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

Maximum recording time (*1)

The maximum recording time of all the folders is as follows.

SHQ (Super high quality mode)

43 h. 25 m.

HQ (High quality mode)

65 h. 10 m.

SP (Standard play mode)

1,043 h.

LP (Long play mode)

4,175 h.

(h.: hours/m.: minutes)

^{*1} When you are going to record continuously for a long time, you may have to replace the batteries with new ones in the midst of recording. For details on the battery life, see “[Battery life](#).”

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When using Sony LR03 (SG) (size AAA) alkaline batteries (*1)

SHQ (Super high quality mode)

Recording: Approx. 26 h.

Playback through speaker (*2): Approx. 13 h.

Playback using the headphones: Approx. 32 h.

HQ (High quality mode)

Recording: Approx. 28 h.

Playback through speaker (*2): Approx. 14 h.

Playback using the headphones: Approx. 34 h.

SP (Standard play mode)

Recording: Approx. 45 h.

Playback through speaker (*2): Approx. 16 h.

Playback using the headphones: Approx. 48 h.

LP (Long play mode)

Recording: Approx. 30 h.

Playback through speaker (*2): Approx. 16 h.

Playback using the headphones: Approx. 50 h.

*1 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association). The battery life may shorten depending on how you operate the IC recorder.

*2 When playing back music through the internal speaker with the volume level set to 28.

When using Sony NH-AAA rechargeable batteries (*1)

SHQ (Super high quality mode)

Recording: Approx. 18 h.

Playback through speaker (*2): Approx. 10 h.

Playback using the headphones: Approx. 22 h.

HQ (High quality mode)

Recording: Approx. 20 h.

Playback through speaker (*2): Approx. 10 h.

Playback using the headphones: Approx. 22 h.

SP (Standard play mode)

Recording: Approx. 29 h.

Playback through speaker (*2): Approx. 11 h.

Playback using the headphones: Approx. 32 h.

LP (Long play mode)

Recording: Approx. 20 h.

Playback through speaker (*2): Approx. 11 h.

Playback using the headphones: Approx. 32 h.

*1 Measured value by the standard of JEITA (Japan Electronics and Information Technology

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Industries Association). The battery life may shorten depending on how you operate the IC recorder.

*² When playing back music through the internal speaker with the volume level set to 28.

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On power

Operate the unit only on 3.0 V or 2.4 V DC. Use two LR03 (size AAA) alkaline batteries or two NH-AAA rechargeable batteries.

On safety

Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.
- Be careful not to allow water to splash on the unit. The unit is not waterproof. In particular, be careful in the following situations.
 - When you have the unit in your pocket and go to the bathroom, etc. When you bend down, the unit may drop into the water and may get wet.
 - When you use the unit in an environment where the unit is exposed to rain, snow, or humidity.
 - In circumstances where you get sweaty. If you touch the unit with wet hands or if you put the unit in the pocket of sweaty clothes, the unit may get wet.
- You may feel pain in your ears if you use the headphones when the ambient air is very dry. This is not because of a malfunction of the headphones, but because of static electricity accumulated in your body. You can reduce static electricity by wearing non-synthetic clothes that prevent the emergence of static electricity.

On noise

- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording.

On maintenance

To clean the exterior, use a soft cloth slightly moistened in water. Then use a soft dry cloth to wipe the exterior. Do not use alcohol, benzine or thinner.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Backup recommendations

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To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, we recommend that you save a backup copy of your recorded files.

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Safety regulations

WARNING

Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

For customers in Europe

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

Notice for the customers: the following information is only applicable to equipment sold in the countries applying EU directives

This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized

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representative, Sony Belgium, bijkantoor van Sony Europe Limited, Da Vincilaan 7-D1, 1935 Zaventem, Belgium. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

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Listening for a Lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer, the Consumer Electronics Association (CEA)® and the American Speech- Language-Hearing Association (ASHA) want you to get the most out of your equipment by playing it at a safe level; a level that lets the sound come through clearly without annoying blaring or distortion and, most importantly, without damaging your sensitive hearing.

Sound can be deceiving. Over time your hearing “comfort level” adapts to higher volumes of sound. So what sounds “normal” can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

TO ESTABLISH A SAFE LEVEL

- Set your volume control to the lowest level where you can hear the music comfortably and clearly. Prolonged exposure to anything over 85 decibels can cause gradual hearing loss.
- Once you have established a sound level where you can hear the audio comfortably, clearly and without distortion, set the dial and leave it there.
- See if your music player has a volume limiter that allows you to set a safe listening level by establishing a maximum volume level on your player. This is a great solution for parents to ensure their children listen at a safe level.
- Limit listening time to give your hearing “quiet breaks.”

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES WHEN WEARING YOUR HEADPHONES OR EARBUDS

- Do not turn up the volume so high that you can't hear sounds around you.
- Do not use headphones or earbuds while operating a motorized vehicle; it may create a traffic hazard and is illegal in many areas.

Used wisely, your new sound equipment will provide years of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer, CEA and ASHA recommend that you avoid prolonged exposure to excessive noise. The following list of sound levels is included for your information so that you can better protect your hearing.

DECIBEL LEVEL EXAMPLES:

30 Whisper
40 Quiet room
50 Moderate rainfall
60 Normal conversation
70 Busy traffic, vacuum cleaner

80 Alarm clock

CONSTANT EXPOSURE TO THESE NOISES CAN BE DANGEROUS:

90 Lawn mower, motorcycle

100 Chain saw

110 Rock concert

120 Jet plane takeoff

130 Jackhammer

140 Firecrackers

This information courtesy of the American Speech-Language-Hearing Association (ASHA), the national professional, scientific and credentialing association for more than 135,000 audiologists, speech-language pathologists, and speech, language and hearing scientists. For information on protection against noise-induced hearing loss, call the ASHA Action Center (800-638-8255), Monday through Friday, 8:30 a.m. to 5 p.m. To find an audiologist in your area, visit www.asha.org/findpro.

Parents can find helpful information about how to protect their children's hearing and how to teach them about safe listening at www.listentoyourbuds.org, an ASHA award-winning public education campaign sponsored in part by CEA.

A safety tip from the Consumer Electronics Association, 1919 South Eads Street, Arlington, VA 22202 and the American Speech-Language-Hearing Association, 2200 Research Boulevard, Rockville, MD 20850.

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Sony Corporation reserves the right to make any modification to this Help Guide or the information contained herein at any time without notice.

- Display windows in this Help Guide may differ from what are actually displayed on your IC recorder depending on the area you purchased the IC recorder and the settings you have made.

What you record is for personal enjoyment and use only. Copyright laws prohibit other forms of use without the permission of the copyright holders.

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Customer support websites

Please access the following support home page to get the support information about your IC recorder:

For customers in Europe:

<http://support.sony-europe.com/DNA>

For customers in Latin America:

<http://www.sony-latin.com/index.crp>

For customers in the U.S.A.:

<http://www.sony.com/recordersupport>

For customers in Canada:

<http://www.sony.ca/ElectronicsSupport>

<http://fr.sony.ca/ElectronicsSupport>

For customers in other countries/regions:

<http://www.sony-asia.com/support>

Note that recorded files may be deleted during service or repair work.

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Troubleshooting

Before taking the IC recorder for repair, check it as follows.

- Check the items listed in “Troubleshooting.”
- Re-insert the batteries.
Some problems may be solved when you re-insert the batteries.
- Charge the batteries if you are using rechargeable batteries.
Some problems may be solved when the batteries are charged.

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Please access the following support home page to get the support information about your IC recorder:

For customers in Europe:

<http://support.sony-europe.com/DNA>

For customers in Latin America:

<http://www.sony-latin.com/index.crp>

For customers in the U.S.A.:

<http://www.sony.com/recordersupport>

For customers in Canada:

<http://www.sony.ca/ElectronicsSupport>

<http://fr.sony.ca/ElectronicsSupport>

For customers in other countries/regions:

<http://www.sony-asia.com/support>

Note that recorded files may be deleted during service or repair work.

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The recorded file is noisy and you want to record with less noise in your recording.

- If you set “LCF” in the menu to “ON” before recording, you can record a file with less noise from the recording environment.

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Related Topic

- [Reducing noise when recording \(LCF\) – the Low Cut Filter function](#)

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A rustling noise is recorded.

- A rustling noise may be recorded if the IC recorder is rubbed by your hand or clothing while you are recording.
If possible, please do not touch the IC recorder until you finish recording.

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A buzzing or humming noise is recorded.

- A buzzing or humming noise may be recorded if the IC recorder is placed near an AC power source, a fluorescent lamp, or a mobile phone during recording or playback.
Keep the IC recorder away from such equipment when recording.

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Noise is recorded when you record a file using an external microphone (not supplied).

- The plug of the connected external microphone is dirty.
Clean the plug.

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Noise is heard when you listen to the file using headphones.

- The plug of the connected headphones is dirty.
Clean the plug.

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Noise is heard in the playback even though the noise cut function is active.

- When playing back files using the built-in speaker or monitoring sound during recording, the noise cut function does not work.

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Related Topic

- [Reducing noise in the playback sound and making the human voice clearer \(N-CUT\)– the noise cut function](#)

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The IC recorder cannot be turned on. The IC recorder does not operate, even if you press any button.

- The batteries are weak.
- The batteries have been inserted with incorrect polarity.
- The power of the IC recorder is off.
Slide and hold the HOLD·POWER ON/OFF switch in the direction of “POWER ON/OFF” until the window display appears. The power is turned on.
- The HOLD function is activated.
Slide the HOLD·POWER ON/OFF switch in the center direction.

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Related Topic

- [Turning the power on](#)
- [Parts and controls](#)
- [Releasing the HOLD function](#)

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The IC recorder cannot be turned off.

- Slide and hold the HOLD·POWER ON/OFF switch in the direction of “POWER ON/OFF” until “OFF” is displayed when the IC recorder is stopped. The power is turned off.

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Related Topic

- [Turning the power off](#)
- [Parts and controls](#)

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The IC recorder cannot be turned on.

- The HOLD function is activated. Slide the HOLD·POWER ON/OFF switch in the center direction.
- The batteries have been inserted with incorrect polarity.

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Related Topic

- [Turning the power on](#)
- [Releasing the HOLD function](#)
- [Inserting batteries](#)

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The IC recorder is powered off automatically.

- When the IC recorder is in the stop mode and you leave the IC recorder without attempting an operation for approximately 10 minutes, the auto power off function will take effect.

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The battery life is short.

- The battery life listed in this Help Guide is based on playback with the volume level set to 28. The battery life may shorten depending on the operation of the IC recorder.
- You are using manganese batteries for this IC recorder. You cannot use the IC recorder with manganese batteries.

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Related Topic

- [Turning the power off](#)
- [Battery life](#)

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There is no battery power remaining after you have left the batteries inserted for long time without using the IC recorder.

- Even if you do not use the IC recorder, the batteries are consumed slightly. If you do not intend to use the IC recorder for an extended period of time, it is recommended that you turn the power off or remove the batteries.

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Related Topic

- [Turning the power off](#)

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The battery life of the rechargeable batteries is short.

- You are using the rechargeable batteries in an environment with a temperature of under 5 °C (41 °F). Battery life becomes shorter as a result of the battery characteristics. This is not a malfunction.
- The rechargeable batteries have deteriorated.
The rechargeable batteries can be charged about 1,000 times (this depends on the environment where the IC recorder is used). If the length of time that the IC recorder can be used approximates only half of the normal time, even after the rechargeable batteries are fully charged, replace the batteries with new ones.

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The IC recorder does not operate correctly.

- Take out the batteries and insert them again.

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Related Topic

- [Formatting the memory \(FORMAT\)](#)

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It takes a long time for the IC recorder to start.

- If the IC recorder is required to process a large amount of data, it may take longer for the IC recorder to start. This is not a malfunction of the IC recorder. Wait until the start-up display disappears.

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The IC recorder does not operate, even if you press any button.

- The batteries are weak.
- The HOLD function is activated. Slide the HOLD·POWER ON/OFF switch in the center direction.

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Related Topic

- [Turning the power on](#)
- [Releasing the HOLD function](#)

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The operation indicator does not light.

- “LED” is set to “OFF.”
Display the menu and set “LED” to “ON.”

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Related Topic

- [Turning the operation indicator on or off \(LED\)](#)

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You cannot record a file.

- The remaining memory capacity is insufficient.

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Recording is interrupted.

- The VOR function is activated. When you are not using the VOR function, set “VOR” to “OFF” in the menu.

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Related Topic

- [Starting to record automatically in response to sound – the VOR function](#)

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You cannot add a recording or an overwrite recording.

- The remaining memory capacity is insufficient. The overwritten part will be deleted after the overwriting part finishes recording. Therefore, you can only overwrite within the remaining recording time.
- You cannot add or overwrite a recording to a file which was not recorded using the IC recorder.
- You cannot add or overwrite a recording to a protected file. To add a recording, release the protection first.

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Related Topic

- [Adding a recording to a previously recorded file \(ADD\)](#)
- [Adding an overwrite recording during playback \(OVER\)](#)
- [Protecting a file \(LOCK\)](#)

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The VOR function does not work.

- The VOR function is set to “OFF.” Set “VOR” to “ON” in the menu.

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Related Topic

- [Starting to record automatically in response to sound – the VOR function](#)

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Recording level is low.

- When recording from the built-in microphone or using an external microphone, "SENS" (microphone sensitivity) is set to "L."
Set "SENS" to "H" in the menu.

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Related Topic

- [Selecting the microphone sensitivity \(SENS\)](#)

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When recording from other equipment, the input level is too strong or not strong enough.

- Connect the headphone jack of other equipment to the  (microphone) jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder.
- If you use an audio connecting cable with high resistance, the input level becomes low during recording. Use an audio connecting cable without resistance.

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Related Topic

- [Recording from external equipment](#)

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The playback volume is low.

- The built-in speaker is mainly for monitoring, and the playback volume is low. Use the supplied headphones.
- The volume is turned down completely. Press VOL – / + to adjust the volume.

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No sound comes from the speaker.

- Headphones are plugged in.
- The volume is turned down completely.

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Related Topic

- [Listening with better sound quality](#)

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Sound comes from only one channel.

- When audio output of an external device connected to the IC recorder is monaural and the recording mode is set to “SHQ” or “HQ,” sounds are recorded only in one channel. Set the recording mode to “SP” or “LP” in the menu.

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Related Topic

- [Selecting the recording mode \(MODE\)](#)

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Sound comes from the speaker even when the headphones are plugged in.

- If you plug in the headphones not securely during playback, the sound may come from the speaker.
Unplug the headphones, and then insert them securely.

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Playback speed is too fast or too slow.

- The playback speed has been adjusted in “DPC.”
Adjust the speed in “DPC” again in the menu.

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Related Topic

- [Adjusting the playback speed – the DPC \(Digital Pitch Control\) function](#)

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Playback sound is not good when a recorded file is played back.

- When you play back a music file with “N-CUT” in the menu is set to “ON” playback sound may be deteriorated.
Set “N-CUT” to “OFF.”

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Related Topic

- [Reducing noise in the playback sound and making the human voice clearer \(N-CUT\)– the noise cut function](#)

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You cannot divide a file.

- You need a certain amount of free space in the memory to divide a file.
- 99 files have been recorded in the selected folder.
Erase some of the files or erase all the files.
- Because of the system limitations, you may not be able to divide a file at the very beginning or at the very end of the file.
- You cannot divide files other than those recorded using the IC recorder.
- You cannot divide a protected file. To divide the file, release the protection first.

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Related Topic

- [Erasing a file](#)
- [Protecting a file \(LOCK\)](#)

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You cannot move a file.

- You cannot move a protected file. To move the file, release the protection first.
- If 99 files have been recorded in the folder to which you want to move a file, you cannot move it.

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Related Topic

- [Protecting a file \(LOCK\)](#)

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You cannot erase a file.

- You cannot erase a protected file. To erase the file, release the protection first.

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Related Topic

- [Protecting a file \(LOCK\)](#)

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“--:--” is displayed.

- You have not set the clock.

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Related Topic

- [Setting the clock](#)
- [Setting the clock using the menu](#)

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The recording date of a file appears as “--Y--M--D” or “--:--.”

- The date of recording will not be displayed if you recorded the file when the clock was not set.

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Related Topic

- [Setting the clock](#)
- [Setting the clock using the menu](#)

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There are fewer menu items displayed in the menu mode.

- During playback or recording, there are menu items that are not displayed.

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Related Topic

- [Menu list](#)

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“ACCESS” display does not disappear.

- If the IC recorder is required to process excessive amount of data, “ACCESS” may be displayed for an extended period of time. This is not a malfunction of the IC recorder.
Wait until the message disappears.

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“FULL” is displayed and you cannot start recording.

- The memory is full.
Erase some of the files or erase all the files.

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Related Topic

- [Erasing a file](#)

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“FILE FULL” is displayed and you cannot operate the IC recorder.

- 99 files have been recorded in the selected folder or 495 files (when there are 5 folders) in total have been recorded. Therefore you cannot record another file, or move a file.
Erase some of the files or erase all the files.

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Related Topic

- [Erasing a file](#)

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Messages list

Follow the instructions below if a message appears on the display.

HOLD

All the button operations are disabled because the IC recorder is in the HOLD status to prevent unintentional operations. Slide the HOLD·POWER ON/OFF switch towards the center to release the IC recorder from the HOLD status.

(See "[Releasing the HOLD function.](#)")

LOW BATT (flashes at the same time)

You cannot format the memory or erase all the files in a folder because of insufficient battery power. Replace the old batteries with new ones.

(See "[Inserting batteries.](#)")

LOW BATT (flashes at the same time)

The batteries are exhausted. Replace the old batteries with new ones.

(See "[Inserting batteries.](#)")

FULL (flashes at the same time)

The remaining memory capacity of the IC recorder is insufficient. Erase some files before recording.

(See "[Erasing a file.](#)")

FULL (folder indicator flashes at the same time)

As there are already the maximum number of files in the folder to which you want to move a file, you cannot move the file. Erase some files before moving.

(See "[Erasing a file.](#)")

FILE FULL

When there are already the maximum number of files in the selected folder or the total number of files stored on the IC recorder has exceeded the maximum, you cannot record a new file or you cannot divide a file. Erase some files before recording or dividing.

(See "[Erasing a file.](#)")

DATA ERR

You cannot play back or edit files, because the data of the selected file is damaged.

SET DATE

Set the clock; otherwise, you cannot set the alarm.

NO FILE

The selected folder does not have any files. You cannot move a file or set the alarm, etc., because of this.

LOCK (flashes at the same time)

The selected file is protected file. You cannot erase it, add a recording to it, add an overwritten file to it, or divide it. Cancel the protection on the IC recorder to edit

the file using the IC recorder.
(See "[Protecting a file \(LOCK\)](#)".)

PRE SET

You set the alarm to play back a file at a date and time previously set on another file. Change the alarm setting.

BACK DATE

You set the alarm when the time has already passed. Check it and set the appropriate date and time.

(See "[Playing back a file at a desired time with an alarm \(ALARM\)](#)".)

NO EDIT

You cannot add a recording or overwrite a recording because the file to which you want to add a recording or overwrite a recording is over the maximum size limit.

NO MOVE (folder indicator flashes at the same time)

You cannot move a message, because there is more than one folder that has files with the same name. Change the file names.

REC-OP OFF

You cannot add a recording or overwrite a recording because "REC-OP" is set to "OFF." Set it to "ON."

(See "[Adding a recording to a previously recorded file \(ADD\)](#)" and "[Adding an overwrite recording during playback \(OVER\)](#)".)

NEW (the message number flashes at the same time)

The file being recorded has reached the maximum size limit. The file will be divided automatically and recording will continue as a new file.

ACCESS ERR

A system error other than the above has occurred. Remove the batteries and re-insert them.

ERROR 01 - ERROR 06

A system error other than the above has occurred. Remove the batteries and re-insert them.

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System limitations

There are some system limitations of the IC recorder. Troubles as mentioned below are not malfunctions of the IC recorder.

A file is divided automatically.

The file being recorded has reached the maximum size limit. Therefore it is automatically divided.

The remaining recording time becomes shorter when you divide a file.

You need a certain amount of free space for a file management area to divide a file, therefore the remaining recording time will be shortened.

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