SONY

4-114-023-**12**(2)

IC Recorder

Owner's Record

The model number is located at the rear panel and the serial number is located inside the battery compartment. Record these numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

Operating Instructions

ICD-UX71/UX81/UX91
ICD-UX71F/UX81F

IC RECORDER

Getting Started
Recording/Playback Messages
Editing Messages
Utilizing the Menu Function
Utilizing Your Computer
Listening to the FM Radio
Troubleshooting
Additional Information
Index

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POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

For the customers in the United States

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product, you may call: Sony Customer Information Service Center 1-800-222-7669 or http://www.sony.com/

Declaration of Conformity

Trade Name	:	SONY
Model	:	ICD-UX71/UX81/UX91
Responsible Party	:	Sony Electronics Inc.
Address	:	16530 Via Esprillo, San Diego, CA 92127 USA
Telephone Number	:	858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/downloading or damaged data due to problems of the IC recorder or computer.
- Depending on the types of the text and characters, the text shown on the IC recorder may not be displayed properly on device. This is due to:
  – The capacity of the connected IC recorder.
  – The IC recorder is not functioning normally.
  – Content information is written in the language or the character that is not supported by the IC recorder.

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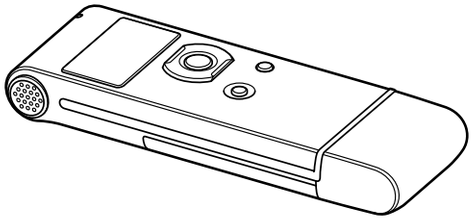
Checking the Contents of the Package

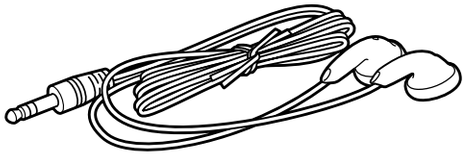
IC Recorder (1)



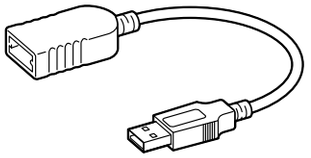
Remove the film on the display window before you use the IC recorder.

LR03 (size AAA) alkaline battery (1)

Stereo headphones (1)



USB connection support cable (1)



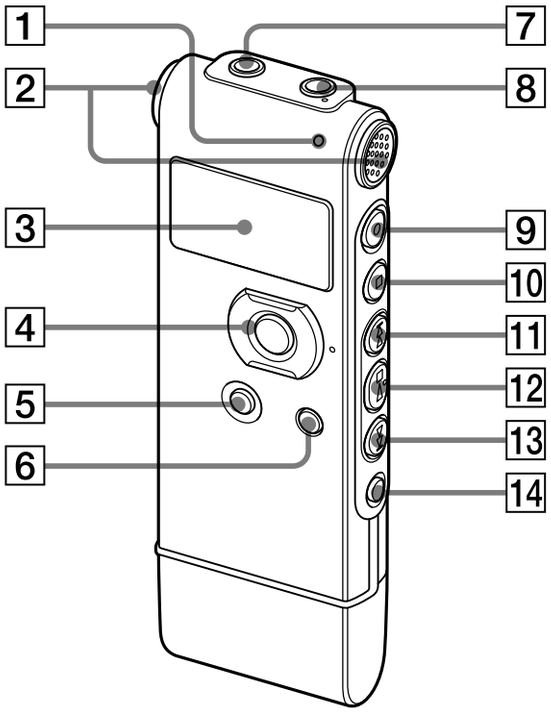
Operating Instructions

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

Front



1 Operation indicator (15, 19, 20, 28, 36, 67, 70, 101)

2 Built-in microphones (stereo) (19)

3 Display window (9)

4 Control button*1 (▲, ▼/VOL (volume) +, –) /ENT (enter) button

5 DIVIDE button (27, 28, 53)

6 (folder)/MENU button (19, 36, 56, 57, 78)

7 (headphone) jack*2 (19, 21, 36, 37, 44, 45)

8 (microphone) jack (29, 31)

9 ● (record/pause) button (19, 21, 26, 29, 32, 34, 61, 85)

10 ■ (stop) button (16, 17, 19, 20, 36, 41, 44, 45, 47, 52, 56, 57, 78, 85, 101)

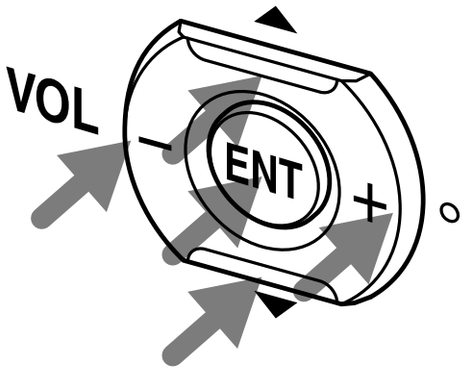
11 ▶▶| (cue/fast forward) button (36, 37, 38, 39, 53, 54, 78)

12 ▶■ (play/stop) button (21, 36, 39, 41, 44, 45, 47, 78)

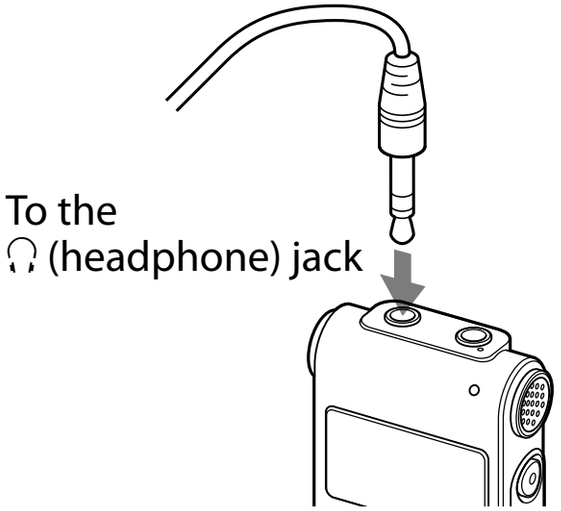
13 |◀◀ (review/fast backward) button (21, 36, 37, 38, 39, 53, 54, 78)

14 (repeat) A-B button (36, 41)

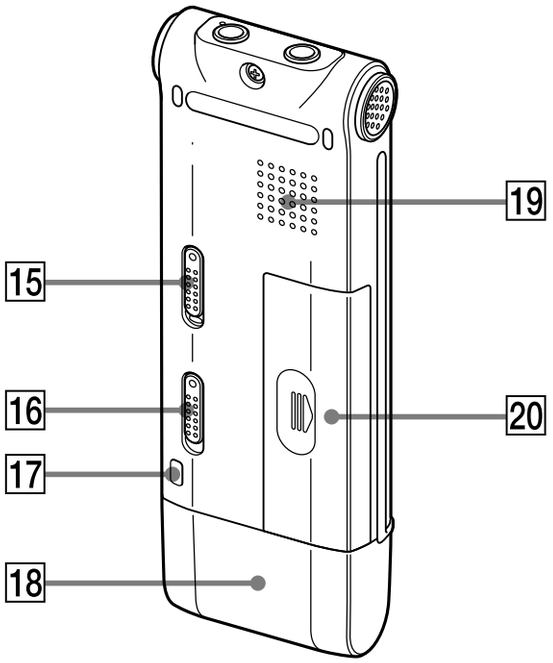
*1 **How to use the control button**
Press VOL – or + on the button to adjust the volume.
In the menu setting window or folder selection window, press ▲ or ▼ on the button to change the menu settings or to select the folder you want, and then press the center button (ENT) to confirm the setting.
In the FM reception window, press ▲ or ▼ to tune in a station, or to select a preset number.



*2 Connect the supplied or commercially available stereo headphones to the ∩ (headphone) jack. If unwanted noise is heard, wipe the headphones plug clean.



Rear



15 HOLD switch (18, 19, 20, 36, 37, 55)

16 DPC (SPEED CTRL) switch (42, 61)

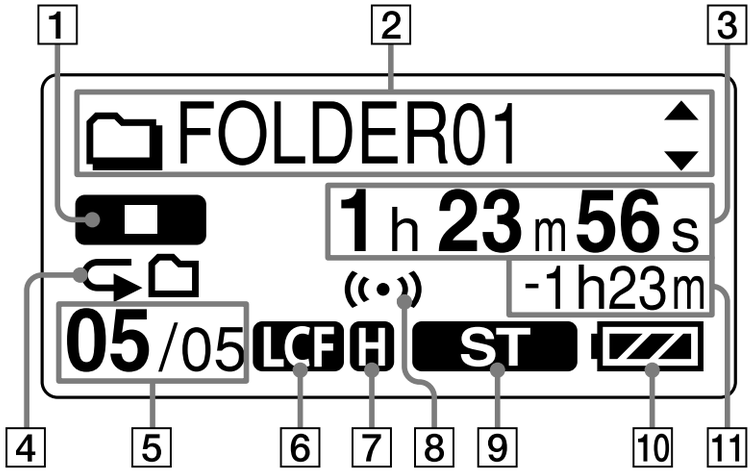
17 Opening for a handstrap
(A handstrap is not supplied.)

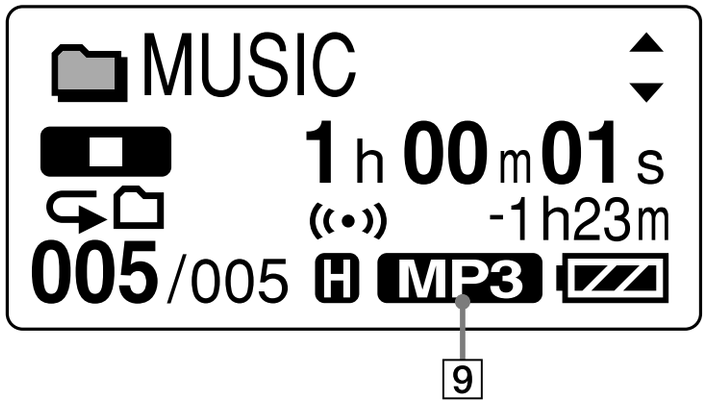
18 USB cap

19 Speaker

20 Battery compartment (12)

Display window





1 Operation mode indicator

Displays the following, depending on the current operation mode

■ : stop

▶ : playback

REC : recording

● II : recording standby/recording pause

REC VOR : recording with the VOR function

● II VOR : recording pause with the VOR function (flashing)

If you press ● (record/pause) to pause recording when "VOR" is set to "ON" in the menu, only "● II" flashes.

REC SYNC : Synchronized recording

● II SYNC : Flashes while synchronized recording is set to pause.

◀◀ ▶▶ : review/fast backward, cue/fast forward

⏮ ⏭ : going backward/forward continuously

2 Folder name/ Message title name/ Artist name/ File name indication

Press ▲ or ▼ of the control button to display a folder name, message title, artist name, and file name in sequence.

3 Elasped time/Remaining time/ Recording date and time indication

4 Repeat playback

1: Appears when one message is played back repeatedly.

: Appears when messages in one folder are played back repeatedly.

ALL : Appears when all the messages are played back repeatedly.

5 Selected message number/Total number of messages in the folder

6 LCF (Low Cut Filter) indicator

Appears when a folder for messages recorded using the IC recorder is selected and the LCF function is set to "ON" in the menu.

7 Microphone sensitivity indicator

Displays the microphone sensitivity.

H (high) : To record at a meeting or in a quiet/spacious place.

L (low) : To record for dictation or in a noisy place.

8 Alarm indicator

Appears when the alarm is set for a message.

9 Recording mode indicator

Displays the recording mode set using the menu when the IC recorder is in the stop mode, and displays the current recording mode when the IC recorder is in the playback or recording mode.

ST : Standard play stereo recording mode with high quality sound

STSP : Standard play stereo recording mode

STLP : Long play stereo recording mode

SP : Standard play monaural recording mode

LP : Long play monaural recording mode

Displays as follows when a file is transferred from the computer.

MP3 : MP3 files transferred

WMA : WMA files transferred

10 Remaining battery indicator

When a dry battery is used, the indicator shows the remaining battery power.

11 Remaining recording time indication

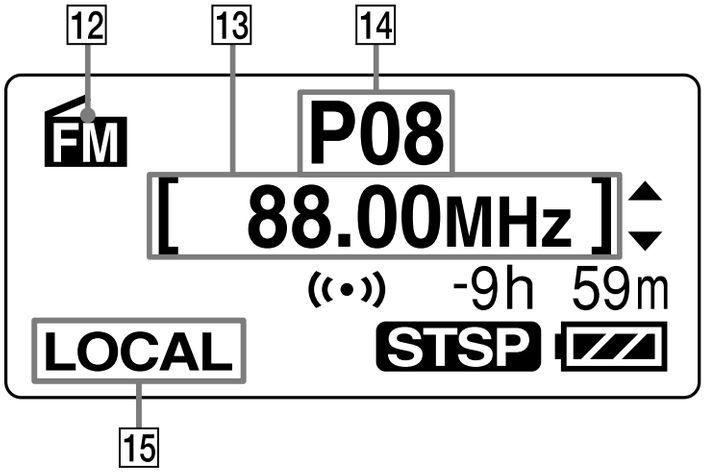
Displays the remaining recording time in hours, minutes, and seconds.

If there is more than 10 hours time remaining, the time is displayed in hours.

If there is more than 10 minutes and less than 10 hours time remaining, the time is displayed in hours and minutes.

If there is less than 10 minutes time remaining, the time is displayed in minutes and seconds.

Display when listening to the FM radio (for ICD-UX71F/UX81F only)



12 FM indicator

13 Radio frequency

14 Preset number

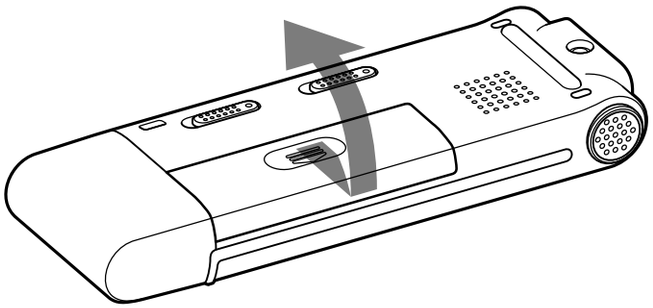
15 Receiver sensitivity

Step 1: Preparing a Power Source

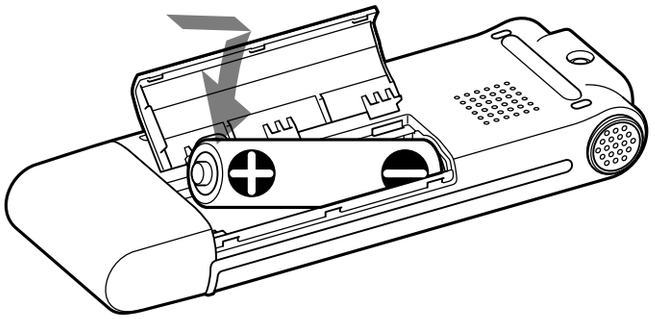
Remove the film on the display window before you use the IC recorder.

Inserting the battery

1 Slide and lift the battery compartment lid.



2 Insert one LR03 (size AAA) alkaline battery with correct polarity, and close the lid.



Tips

- When replacing the battery, messages recorded or alarm settings are not erased even when you remove the battery.
- When replacing the battery, the clock continues moving for about 3 minutes after you remove the battery.

Note

Do not use manganese battery for this IC recorder.

Clock setting display appears and the year section flashes when you insert battery for the first time, or when you insert battery after the IC recorder has been without battery for a certain period of time. Please refer to "Continued directly from Step 1: Preparing a Power Source" on page 15 to set the date and time.

When replacing the battery

The remaining battery indicator on the display shows the battery condition.

Battery remain indication

: Replace the old battery with a new one.

: "LOW BATTERY" appears and the IC recorder will stop operation.

Battery life*1

When using Sony LR03 (SG) (size AAA) alkaline battery

Recording mode	ST*3	STSP*4
Recording	Approx. 13 hr.	Approx. 13 hr.
Playback*2 through speaker	Approx. 16 hr.	Approx. 16 hr.
Playback using the headphones	Approx. 40 hr.	Approx. 40 hr.
FM recording	Approx. 4 hr. 30 min.	Approx. 4 hr. 30 min.

(hr. : hours/min. : minutes)

Recording mode	STLP*5	SP*6
Recording	Approx. 15 hr.	Approx. 13 hr. 30 min.
Playback*2 through speaker	Approx. 16 hr. 30 min.	Approx. 16 hr. 30 min.
Playback using the headphones	Approx. 42 hr. 30 min.	Approx. 41 hr. 30 min.
FM recording	Approx. 5 hr.	Approx. 5 hr.

Recording mode	LP*7	Music file (128 kbps/ 44.1 kHz)
Recording	Approx. 16 hr.	–
Playback*2 through speaker	Approx. 17 hr.	Approx. 16 hr.
Playback using the headphones	Approx. 43 hr. 30 min.	Approx. 40 hr.
FM recording	Approx. 5 hr.	–

FM reception : Approx. 5 hr. 30 min.

(hr. : hours/min. : minutes)

When using Sony NH-AAA rechargeable battery

Recording mode	ST[*3]	STSP[*4]
Recording	Approx. 14 hr. 30 min.	Approx. 14 hr. 30 min.
Playback[*2] through speaker	Approx. 18 hr.	Approx. 18 hr.
Playback using the headphones	Approx. 44 hr. 30 min.	Approx. 44 hr. 30 min.
FM recording	Approx. 5 hr.	Approx. 5 hr.

Recording mode	STLP[*5]	SP[*6]
Recording	Approx. 16 hr. 30 min.	Approx. 15 hr. 30 min.
Playback[*2] through speaker	Approx. 18 hr. 30 min.	Approx. 18 hr. 30 min.
Playback using the headphones	Approx. 47 hr.	Approx. 46 hr.
FM recording	Approx. 5 hr. 30 min.	Approx. 5 hr. 30 min.

(hr. : hours/min. : minutes)

Recording mode	LP[*7]	Music file (128 kbps/ 44.1 kHz)
Recording	Approx. 17 hr. 30 min.	–
Playback[*2] through speaker	Approx. 19 hr. 30 min.	Approx. 18 hr. 30 min.
Playback using the headphones	Approx. 48 hr. 30 min.	Approx. 44 hr. 30 min.
FM recording	Approx. 5 hr. 30 min.	–

FM reception :
Approx. 6 hr.

(hr. : hours/min. : minutes)

[*1] 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 24

[*3] ST : Stereo high quality recording mode

[*4] STSP : Stereo standard recording mode

[*5] STLP : Stereo long play recording mode

[*6] SP : Monaural standard play recording mode

[*7] LP : Monaural long play recording mode

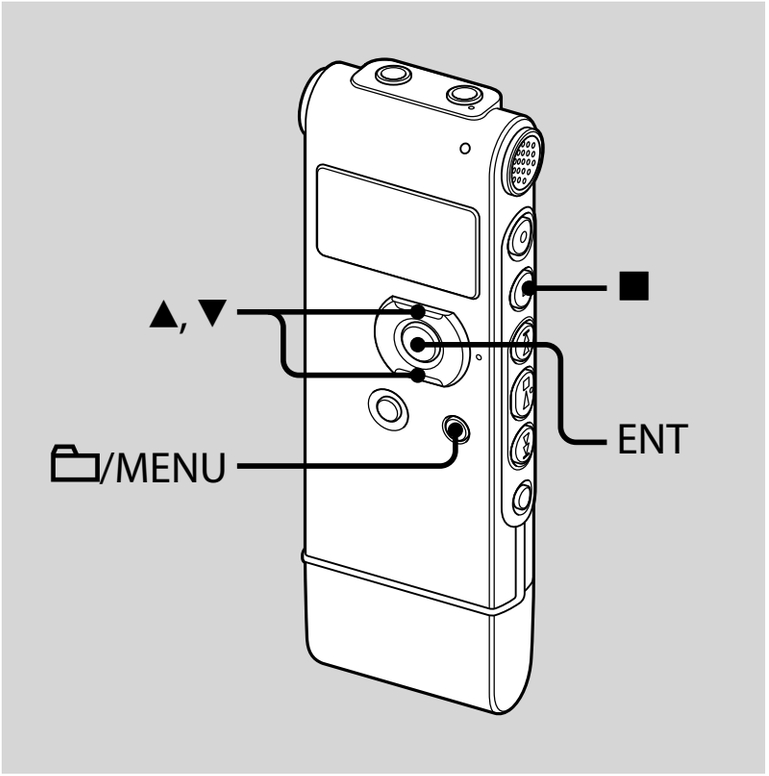
Note while accessing

The IC recorder is accessing data when an updating animation appears in the display window or the operation indicator flashes in orange or is lit in red. While the IC recorder is accessing data, do not remove the battery or connect or disconnect the USB AC adaptor (not supplied). Doing so may damage the data.

Note

If the IC recorder is required to process a large amount of data, an updating animation may be displayed for an extended period of time. This is not a malfunction of the IC recorder. Wait until the animation disappears before starting operation.

Step 2: Setting the Clock

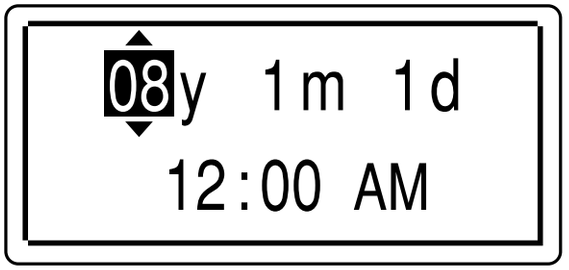


You need to set the clock to use the alarm function or record the date and time.

Clock setting display appears when you insert battery for the first time, or when you insert a battery after the IC recorder has been without battery for more than 3 minutes, “SET DATE & TIME” appears, and then the year section flashes in the display window.

Continued directly from “Step 1: Preparing a Power Source”

1 Press ▲ or ▼ on the control button to set the year, month, day, hour, and minute in sequence, and then press ENT.



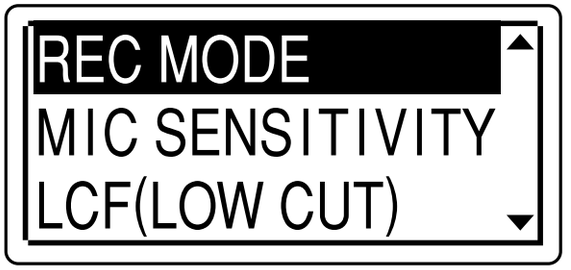
2 Press ■ (stop) to return to the display of the stop mode.

Setting the clock using the menu

While the IC recorder is in the stop mode, you can set the clock using the menu.

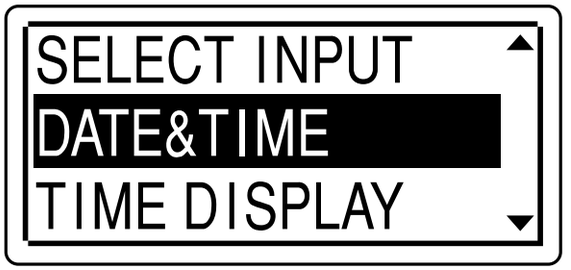
1 Select “DATE & TIME” in the menu.

① Press and hold 🗀/MENU to enter the menu mode.
The menu mode will be displayed in the display window.

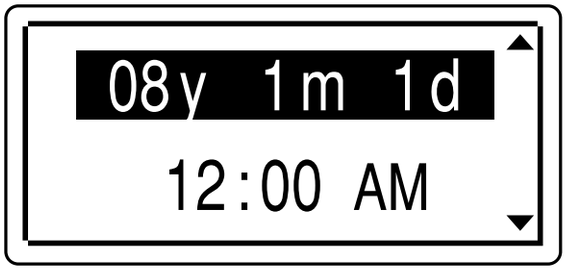


② Press ▲ or ▼ on the control button to select “DETAIL MENU,” and then press ENT.

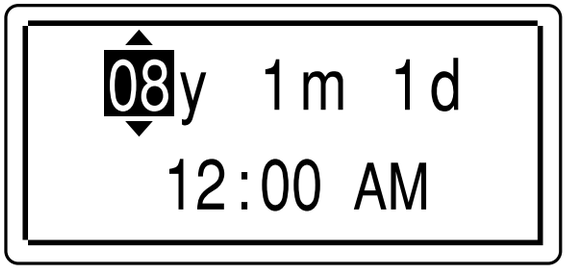
③ Press ▲ or ▼ on the control button to select “DATE & TIME,” and then press ENT.



2 Press the ▲ or ▼ on the control button to select "08y1m1d," and then press ENT.



3 Press ▲ or ▼ on the control button to set the year, month, day, hour, and minute in sequence, and then press ENT.



4 Press ■ (stop) to return to the display of the stop mode.

Tips

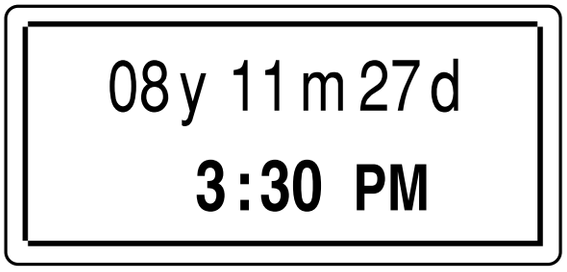
- Press 🗀/MENU to return to the previous operation.
- You can set the time display for the clock to "12-HOUR" or "24-HOUR" in the menu. When "12-HOUR" is set, "AM" or "PM" appears in the display window.
- When setting the clock, you can use VOL + or – on the control button to move the cursor toward the left or right. You cannot use VOL + or – to adjust the volume at this time.

Note

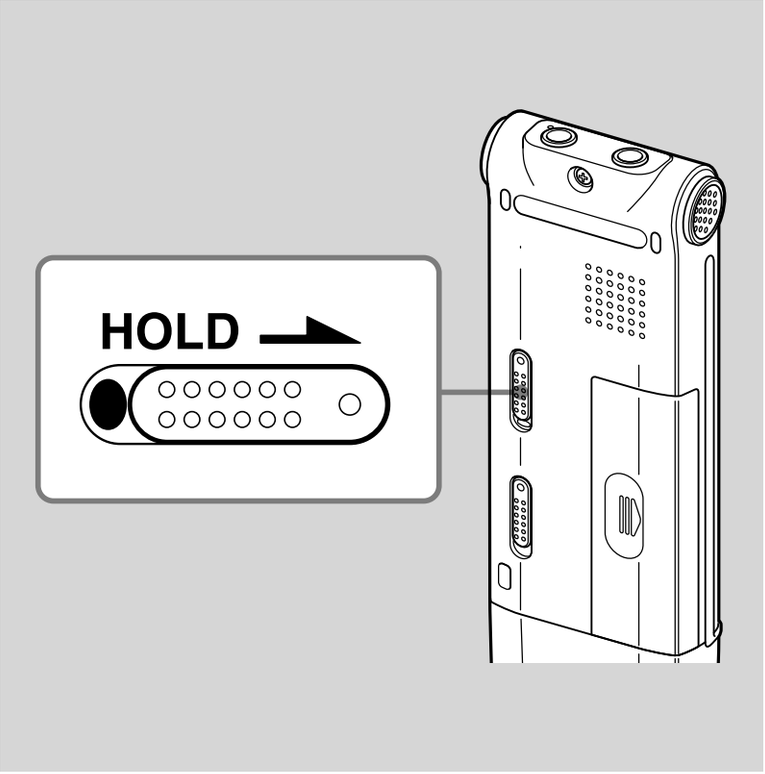
If you do not press ENT within one minute of entering the clock setting data, the clock setting mode is cancelled and the window will return to the display of the stop mode.

To display the current date and time

Press ■ (stop) to display the current date and time.



Turning the IC Recorder On or Off



When you are not using the IC recorder, you can prevent the battery from getting weak quickly by turning the power off.

Turning the power off

Slide the HOLD switch in the direction of the arrow in the stop mode. “HOLD” lights up and the key mark flashes and then “POWER OFF” is displayed. The IC recorder turns off within a few seconds.

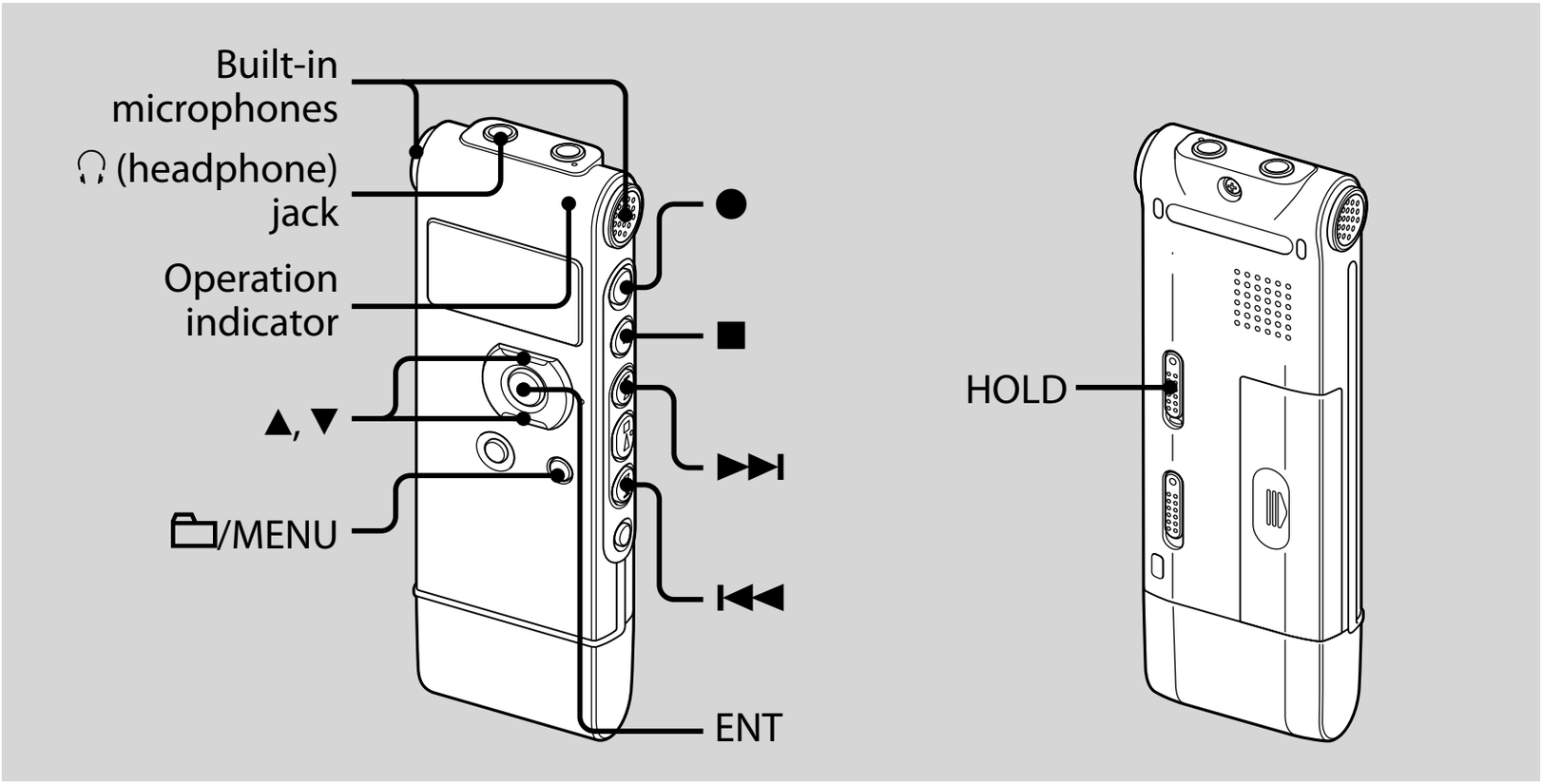
Turning the power on

Slide the HOLD switch in the opposite direction from that of the arrow. The IC recorder is turned on, and an accessing animation is displayed.

Tips

- When you are not going to use the IC recorder for a long time, we recommend to turn off the IC recorder.
- When 10 minutes have passed after you have turned on the IC recorder and leave it without doing anything, the display goes off automatically. (Press any button to show the display.)

Recording Messages



1 Select a folder.

① Press /MENU to display the folder selection window.

② Press ▲ or ▼ on the control button to select the folder in which you want to record messages (FOLDER01-05), and then press ENT.

2 Start recording.

① Press ● (record/pause) in the stop mode.

The operation indicator lights in red. (When "LED" is set to "OFF" in the menu (page 67), the operation indicator does not light.)
You do not need to press and hold ● (record/pause) while recording. The new message will be automatically recorded after the last recorded message.

② Speak into the built-in microphones.

3 Press ■ (stop) to stop recording.

The IC recorder stops at the beginning of the current recording.

Tips

- Messages recorded using this IC recorder will be recorded as MP3 files.
- Before you start recording, we recommend you make a trial recording first.
- When you purchase the IC recorder, there are 5 folders already available, and you can record up to 99 messages in each folder.
- While recording you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

Notes

- You cannot record a message in a folder transferred from a computer. If you press ● (record/pause) when you have selected a folder, the folder will be automatically changed to a folder in which a message can be recorded, and the message will be recorded as the last one in the folder.
- While the operation indicator is flashing or is lit in red or orange, do not remove the battery or connect or disconnect the USB AC adaptor. Doing so may damage the data.
- Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC recorder during recording.
- Before making a recording, be sure to check the remaining battery/charging indicator (page 13).
- To avoid replacing battery during a long recording session, use a USB AC adaptor (not supplied) (page 101).
- The maximum recording time varies if you record messages in mixed recording mode.

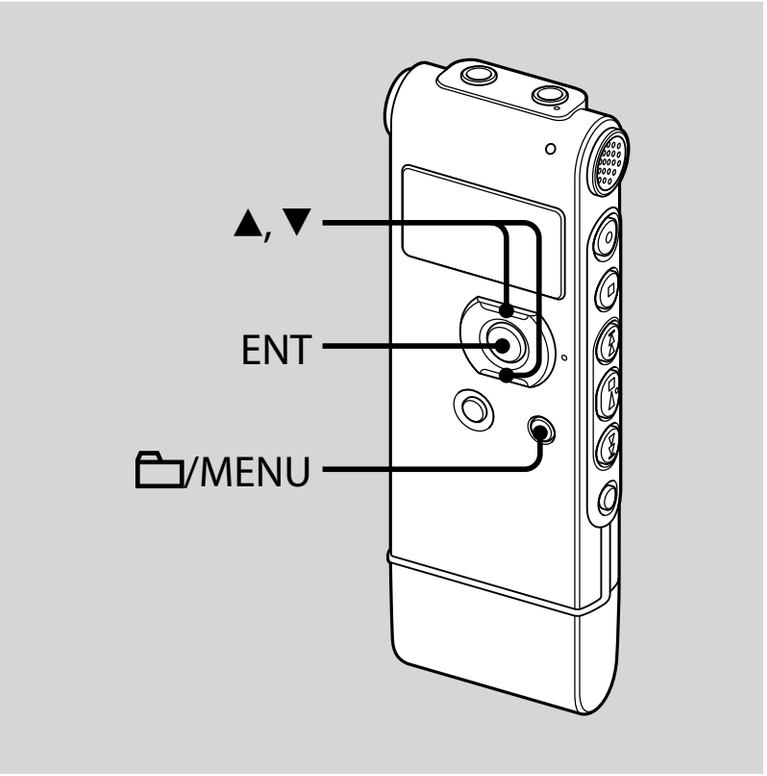
To	Do this
pause recording*	Press ● (record/pause). During recording pause, the operation indicator flashes in red and "●II" flashes in the display window.
release pause and resume recording	Press ● (record/pause) again. Recording resumes from that point. (To stop recording after pausing recording, press ■ (stop).)
review the current recording instantly	Press ►■. Recording stops and playback starts from the beginning of the message just recorded.
review during recording	Press and hold I◄◄ during recording or recording pause. Recording stops and you can search backwards while listening to fast playback sound. After you release I◄◄, playback starts from that point.

* One hour after you pause recording, recording pause is automatically released and the IC recorder enters the stop mode.

Monitoring the recording

Connect the supplied stereo headphones to the ∩ (headphone) jack and monitor the recording. You can adjust the monitoring volume by pressing VOL + or – on the control button, but the recording level is fixed.

Selecting the recording mode

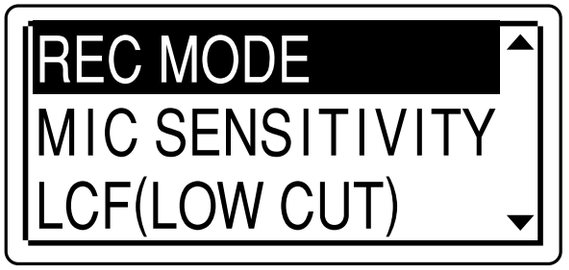


You can select the recording mode in the menu when the IC recorder is stopped. The recording mode is set to "ST" when you purchase the IC recorder.

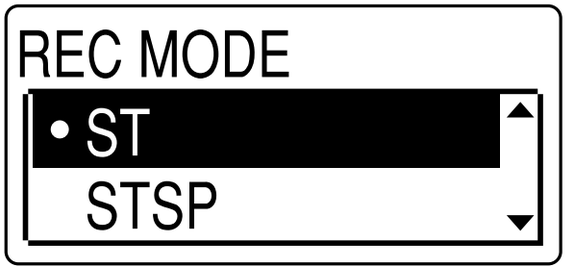
1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "REC MODE" and then press ENT.



3 Press ▲ or ▼ on the control button to select "ST," "STSP," "STLP," "SP," or "LP," and then press ENT.



ST : High-quality stereo recording mode (44.1 kHz/192 kbps)
You can record with stereo high-quality sound.

STSP : Standard play stereo recording mode (44.1 kHz/128 kbps)
You can record with stereo sound.

STLP : Long play stereo recording mode (22.05 kHz/48 kbps)
You can record for a longer time with stereo sound.

SP : Standard play monaural recording mode (44.1 kHz/32 kbps)
You can record with standard quality sound.

LP : Long play monaural recording mode (11.025 kHz/8 kbps)
You can record for a longer time with monaural sound.

To record with better sound quality, select the ST or STSP mode.

Note

You cannot set the recording mode while recording.

Maximum recording time

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

ICD-UX71/UX71F

ST mode	STSP mode	STLP mode
11 hr. 55 min.	17 hr. 55 min.	47 hr. 50 min.

SP mode	LP mode
71 hr. 45 min.	287 hr. 15 min.

ICD-UX81/UX81F

ST mode	STSP mode	STLP mode
23 hr. 55 min.	35 hr. 55 min.	95 hr. 55 min.

SP mode	LP mode
143 hr. 50 min.	575 hr. 35 min.

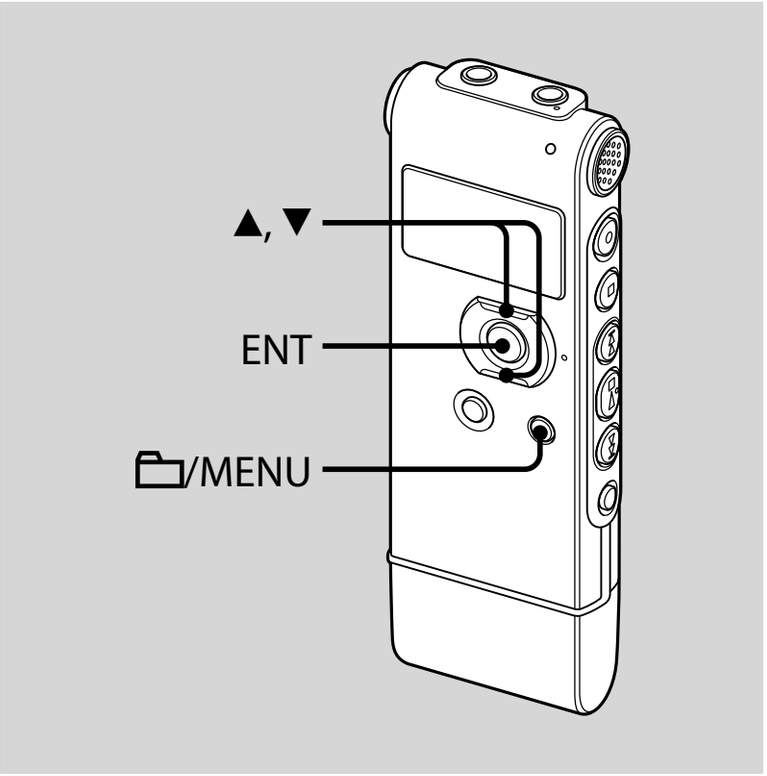
ICD-UX91

ST mode	STSP mode	STLP mode
47 hr. 55 min.	72 hr.	192 hr.

SP mode	LP mode
288 hr.	1,152 hr. 5 min.

(hr. : hours/min. : minutes)

Setting the microphone sensitivity

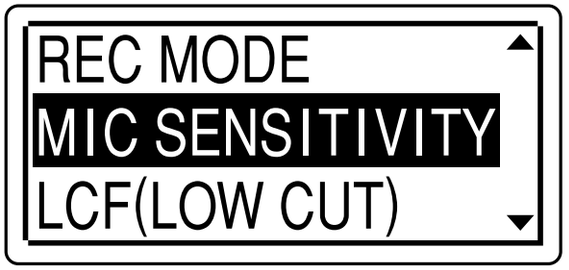


You can set the microphone sensitivity in the menu when the IC recorder is stopped or is recording.
The microphone sensitivity is set to "HIGH (H)" when you purchase the IC recorder.

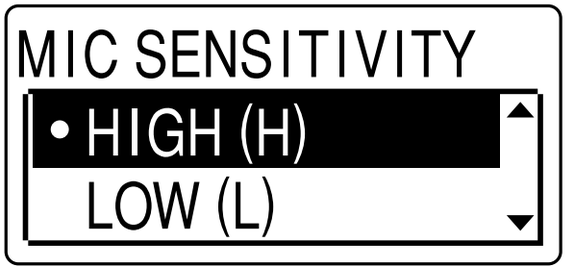
1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "MIC SENSITIVITY," and then press ENT.



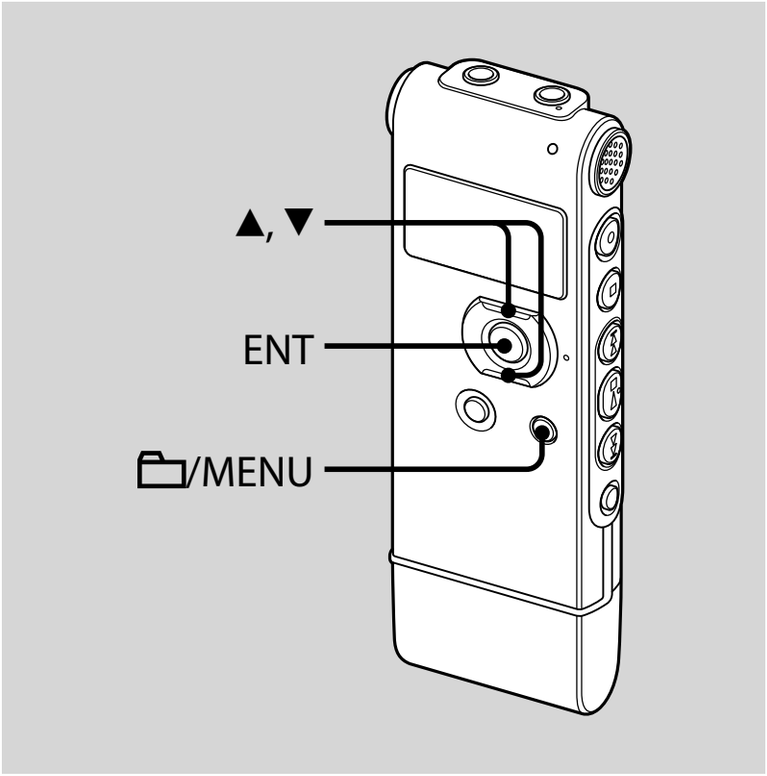
3 Press ▲ or ▼ on the control button to select "HIGH (H)," "LOW (L)," and then press ENT.



HIGH (H): To record at meetings or in a quiet and/or spacious place.

LOW (L): To record dictation, or record in a noisy place.

Cutting out low frequency – the LCF function

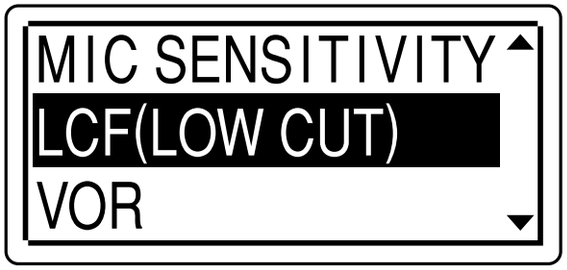


When you set the LCF (Low Cut Filter) function to "ON" in the stop or recording mode, you cut out a low frequency to reduce the roaring noise from wind, etc.; therefore you can record a message more clearly.
The LCF function is set to "OFF" when you purchase the IC recorder.

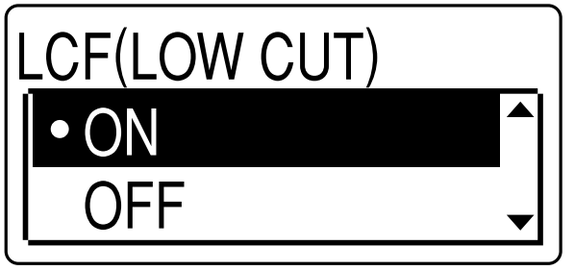
1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "LCF (LOW CUT)," and then press ENT.



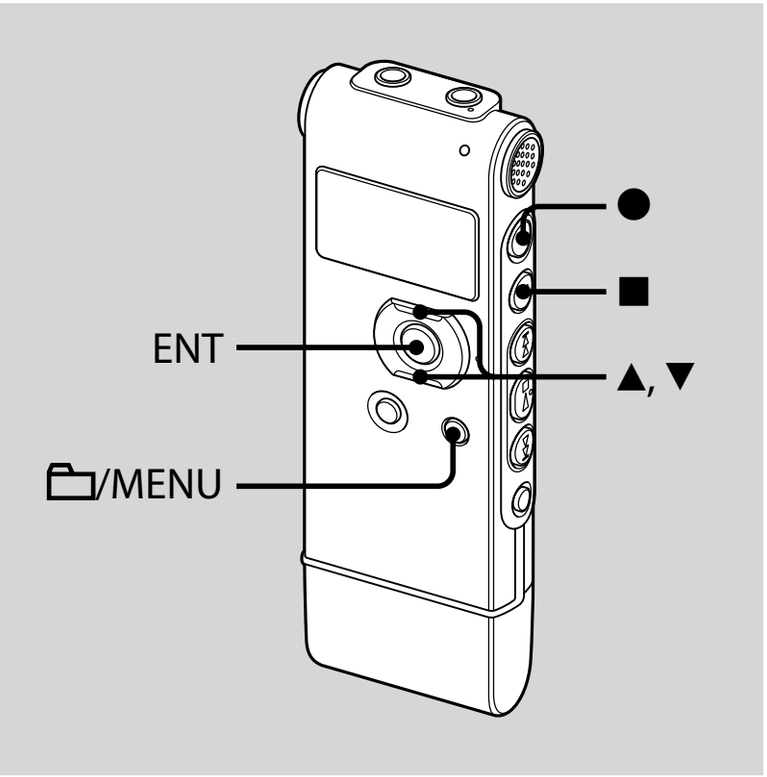
3 Press ▲ or ▼ on the control button to select "ON," and then press ENT.



To cancel the LCF function

Set "LCF (LOW CUT)" to "OFF" in step 3.

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

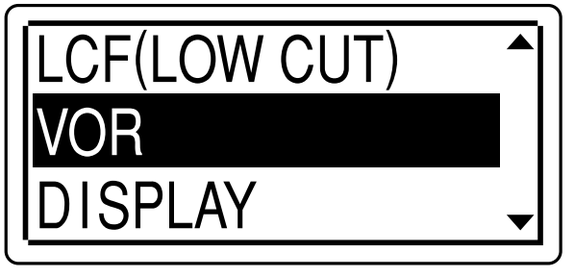


You can set the VOR (Voice Operated Recording) function to "ON," to make the IC recorder start recording when the IC recorder detects sound, and pause when no sound is heard, eliminating recording during soundless periods.
The VOR function is set to "OFF" when you purchase the IC recorder.

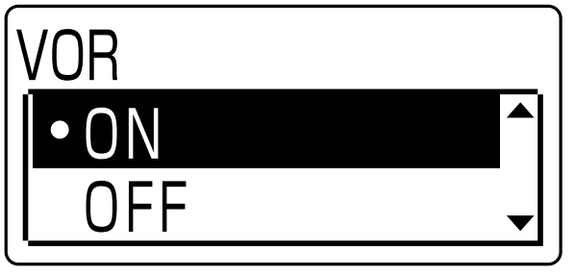
1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "VOR," and then press ENT.



3 Press ▲ or ▼ on the control button to select "ON," and then press ENT.



4 Press ■ (stop) to exit the menu mode.

5 Press ● (record/pause).

"REC" and "VOR" appear in the display window.

The recording starts when the IC recorder detects sound. The recording pauses when no sound is detected and "VOR" and "● II" flash. When the IC recorder detects sound again, the recording starts again.

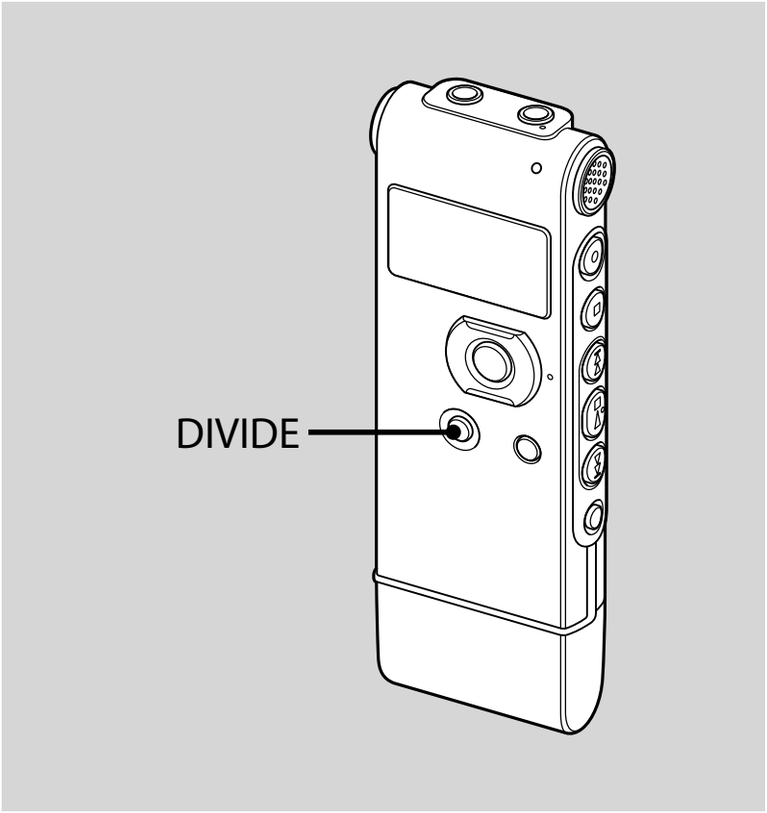
To cancel the VOR function

Set "VOR" to "OFF" in step 3.

Notes

- The VOR function is affected by the sound around you. Set "MIC SENSITIVITY" in the menu according to the recording conditions. If recording is not satisfactory after you have changed the microphone sensitivity, or for an important recording, set "VOR" to "OFF" in the menu.
- If you press ● (record/pause) to pause recording when "VOR" is set to "ON" in the menu, only "● II" flashes.
- During synchronized recording (page 31) and FM recording (page 85), the VOR function does not work.

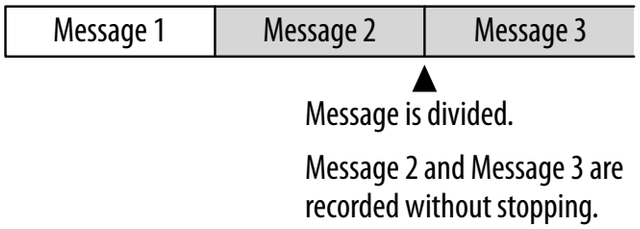
Dividing a message into two during recording



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

Press DIVIDE during recording.

"DIVIDING …" appears on the display and the new message number is added at the point you pressed the button. The message will be recorded as two messages, however recording continues without stopping.



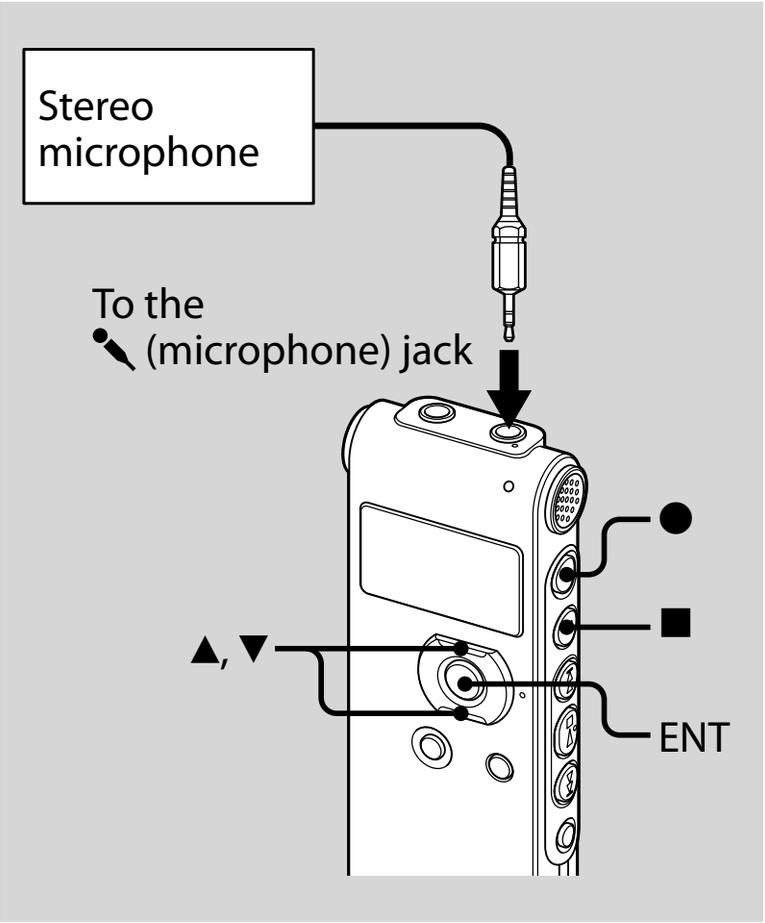
Tip

You can divide the currently recorded message during recording pause.

Notes

- You need a certain amount of free space in the memory to divide a message. For more information, see "System Limitations" on page 100.
- If 99 messages have been recorded in a folder, you cannot divide a message in that folder.
- Once a message is divided, you cannot re-combine the divided messages.
- You cannot divide a message at the very beginning (0.5 seconds from the beginning) or at the very end (0.5 seconds prior to the end) of the message.
- When you divide a message into two, at the point of division, the end of the first message and the beginning of the second message may be interrupted.
- During synchronized recording (page 31) and FM recording (page 85), you cannot divide a message.
- If you divide messages too frequently while the unit is recording them, the following phenomenon may occur: The operation indicator keeps flashing, and you cannot operate the unit for a certain period. This is not a malfunction. Wait until the operation indicator goes off.

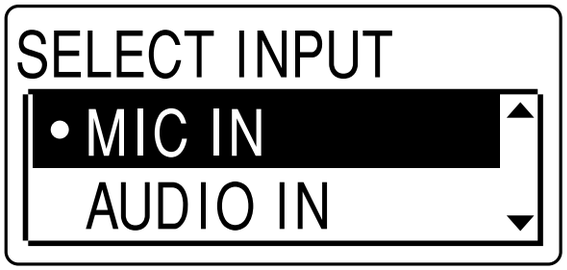
Recording with an external microphone



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

"SELECT INPUT" appears in the display window.

2 Press ▲ or ▼ on the control button to select "MIC IN," and then press ENT.



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

4 Press ● (record/pause) to start recording.

The built-in microphones are automatically cut off.

If the input level is not strong enough, adjust the microphone sensitivity on the IC recorder.

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

Note

If "SELECT INPUT" is not displayed, set it in the menu (page 65).

Recommended microphones

You can use the Sony ECM-CS10, ECM-CZ10, ECM-DS70P, ECM-DS30P electret condenser microphone (not supplied).

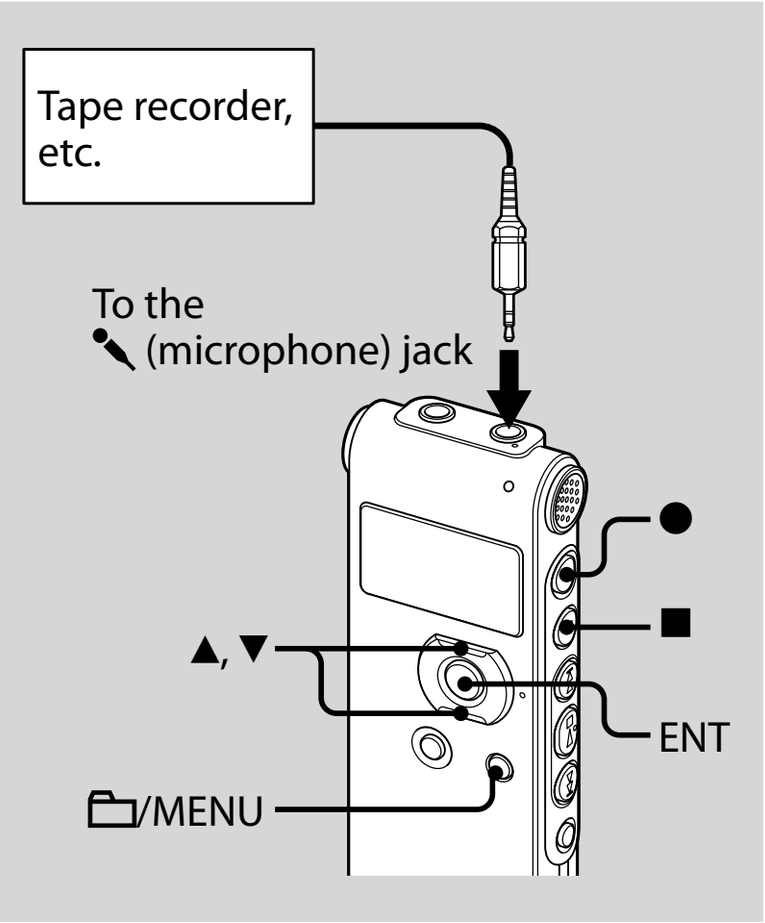
Recording sound from a telephone or a cell phone

You can use the ECM-TL1 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, see the operating instructions supplied with the ECM-TL1 microphone.

Notes

- After you have made the connection, check the sound quality of the conversation and the recording level before you start recording.
- If the beep of the telephone or a dial tone is recorded, the conversation may be recorded with lower level of sound. In this case, start recording after the conversation has started.
- The VOR function may not work, depending on the kind of telephone or the line condition.
- We assume no responsibility whatsoever for any inconvenience, even if you cannot record a conversation using the IC recorder.

Recording from other equipment



You can make music files without using the computer by recording the sound from other equipment connected to the IC recorder.
When you use the synchronized recording function, the IC recorder enters the recording pause mode when no sound is detected for more than 2 seconds and the IC recorder starts recording again as a new message when sound is detected.

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

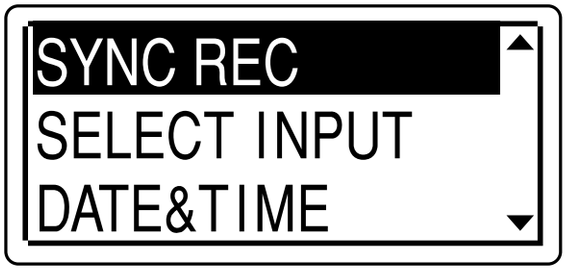
To record using the synchronized recording function

1 Press and hold /MENU to enter the menu mode.

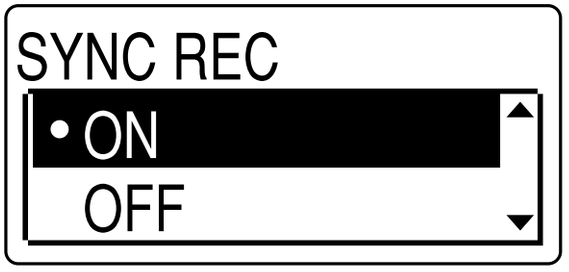
The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "DETAIL MENU," and then press ENT.

3 Press ▲ or ▼ on the control button to select "SYNC REC," and then press ENT.



4 Press ▲ or ▼ on the control button to select "ON," and then press ENT.

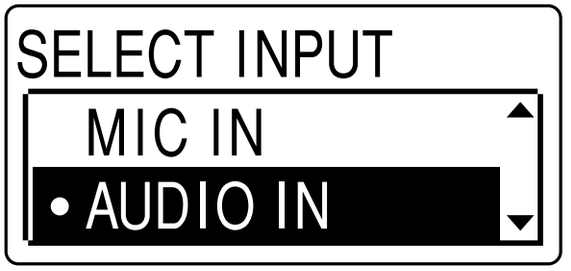


5 Press ■ (stop) to exit the menu mode.

6 Connect other equipment to 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*.

"SELECT INPUT" appears in the display window.



7 Press ▲ or ▼ on the control button to select "AUDIO IN," and then press ENT.

8 Press ● (record/pause) to start recording.

"● II SYNC" flashes and the IC recorder enters the recording pause mode.

9 Start playback on the component connected to the IC recorder.

"REC SYNC" appears on the display and synchronized recording starts.

The synchronized recording pauses when no sound is detected for more than 2 seconds, and "● II SYNC" flashes. The IC recorder starts recording again as a new message when sound is detected.

Notes

- During synchronized recording, you cannot divide a message (page 27) and you cannot pause recording (page 21).
- Depending on the equipment connected to the IC recorder, the synchronized recording function may not operate properly due to a difference in the audio input level.

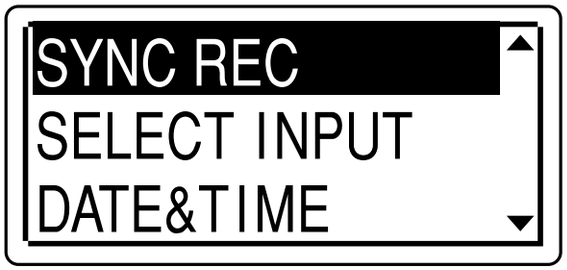
To record without using the synchronized recording function

1 Press and hold 🗀/MENU to enter the menu mode.

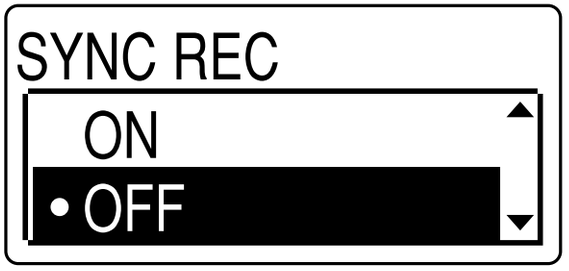
The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "DETAIL MENU," and then press ENT.

3 Press ▲ or ▼ on the control button to select "SYNC REC," and then press ENT.



4 Press ▲ or ▼ on the control button to select "OFF," and then press ENT.

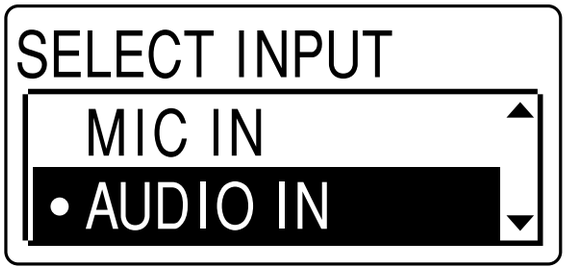


5 Press ■ (stop) to exit the menu mode.

6 Connect other equipment to 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*.

"SELECT INPUT" appears in the display window.



7 Press ▲ or ▼ on the control button to select "AUDIO IN," and then press ENT.

8 Press ■ (stop) to exit the menu mode.

9 Press ● (record/pause) to start recording.

The built-in microphones are automatically cut off and the sound from the connected equipment is recorded.

10 Start playback on the component connected to the IC recorder.

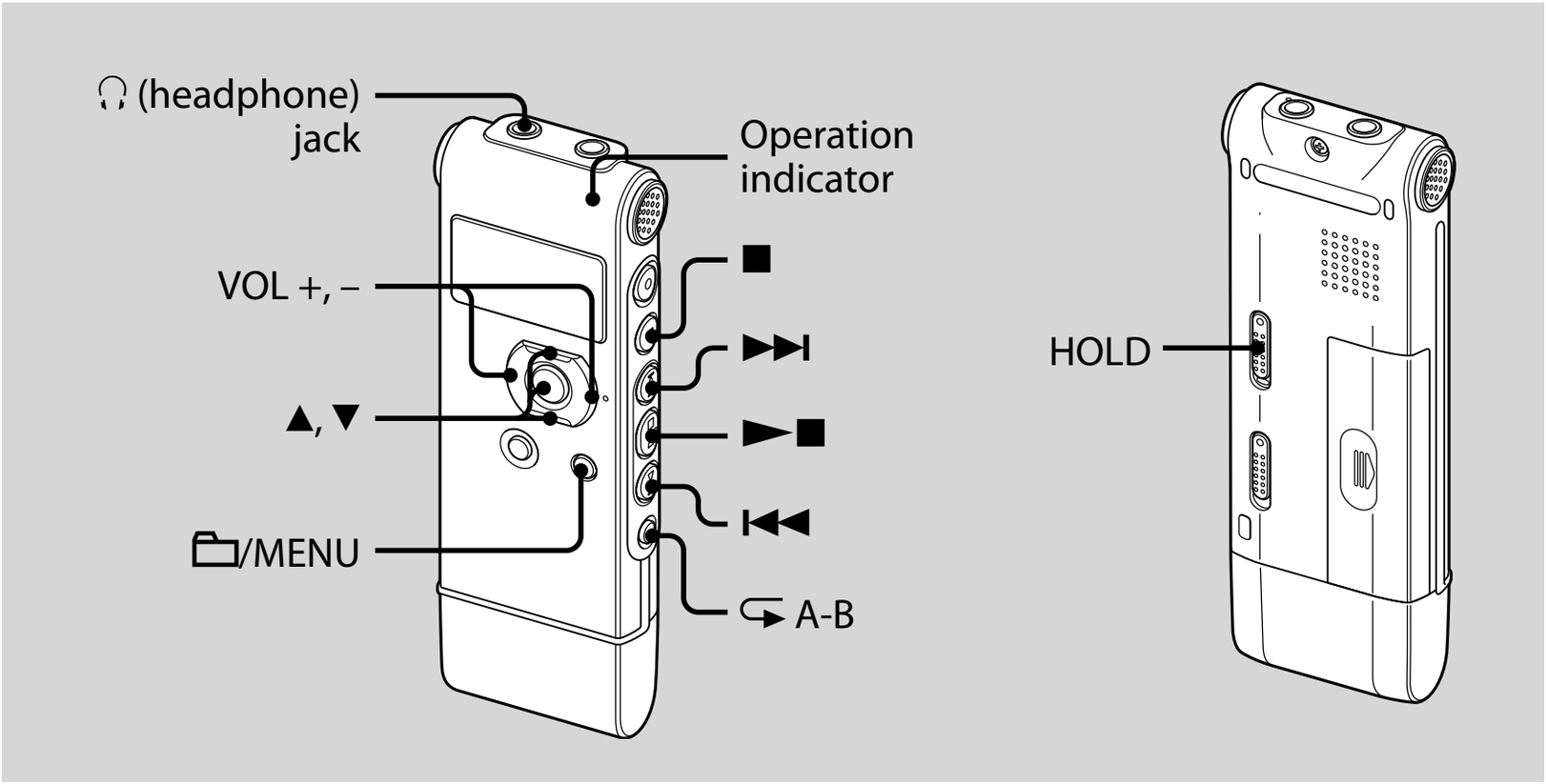
*** Optional audio connecting cables (not supplied)**

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug (without resistor)	Mini-plug (monaural) (without resistor)
RK-G136	Stereo mini-plug (without resistor)	Stereo mini-plug (without resistor)

Notes

- When recording from other equipment, the microphone sensitivity cannot be adjusted.
- 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 equipment connected to the IC recorder.
- If "SELECT INPUT" is not displayed, set it in the menu (page 65).
- Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

Playing Back Messages



1 Select a folder.

① Press /MENU.

② Press ▲ or ▼ on the control button to select the folder, and then press ENT.

2 Press I◀◀ or ▶▶I to select the message you want to play.

3 Press ►■ to start playback.

The operation indicator lights in green. (When "LED" is set to "OFF" in the menu (page 67), the operation indicator does not light.)

4 Press VOL + or – on the control button to adjust the volume.

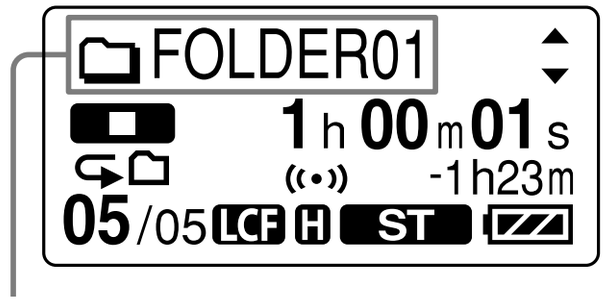
5 Press ■ (stop) to stop playback.

Tip

During playback you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

Display when playing back the messages

Press ▲ or ▼ on the control button to check the file information during playback.
A message recorded using the IC recorder is displayed as follows.



: Folder name: FOLDER01-FOLDER05
: Title: Date_file number (e.g. 080101_001)
: Artist name: Unknown
: File name: Date_file number.mp3 (e.g. 080101_001.mp3)

You can change the folder name, title, artist name, and/or file name using your computer.

Listening with better sound quality

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

Quickly locating the point you wish to start playback (Easy Search)

When "EASY SEARCH" is set to "ON" (page 62) in the menu, you can quickly locate the point at which you wish to start playback by pressing ▶▶| or |◀◀ repeatedly during playback.
You can go back approx. 3 seconds by pressing |◀◀ once, or advance approx. 10 seconds by pressing ▶▶| once. This function is useful for locating a desired point in a long recording.

Searching forward/backward during playback (Cue/Review)

- **To search forward (Cue):** Press and hold ▶▶I during playback and release it at the point you wish to resume playback.
- **To search backward (Review):** Press and hold I◀◀ 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 messages are played back to the end of the last message

- When you play back or fast play back to the end of the last message, "MESSAGE END" lights up for 5 seconds and the operation indicator lights up in green. (You cannot hear the playback sound.)
- When "MESSAGE END" and the operation indicator go off, the IC recorder will stop at the beginning of the last message.
- If you press and hold I◀◀ while "MESSAGE END" is lit, the messages are played back rapidly, and normal playback will start at the point you release the button.
- If the last message is long and you wish to start playback at a later part of the message, press and hold ▶▶I to go to the end of the message and then press I◀◀ while "MESSAGE END" is lit to go back to the desired point.
- For messages other than the last one, go to the beginning of the next message and play backward to the desired point.

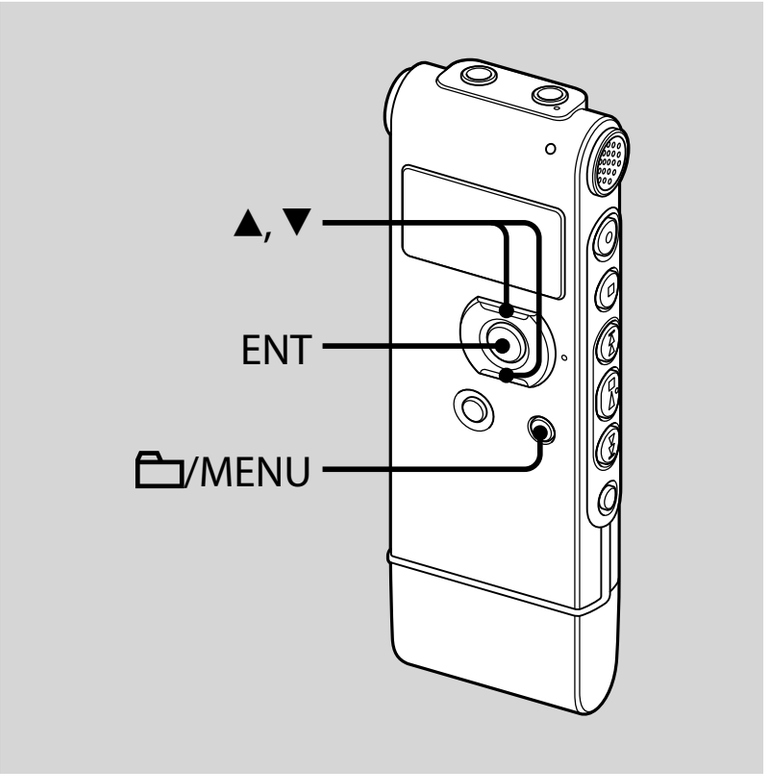
To	Do this
stop at the current position (Playback Pause function)	Press ■ (stop) or ►■. To resume playback from that point, press ►■ again.
go back to the beginning of the current message	Press ⏮ once.*
go back to previous messages	Press ⏮ repeatedly. (During stop mode, keep the button pressed to go back the messages continuously.)
skip to the next message	Press ⏭ once.*
skip to the succeeding messages	Press ⏭ repeatedly. (During stop mode, keep the button pressed to skip the messages continuously.)

* These operations are for when "EASY SEARCH" is set to "OFF" (page 62).

Playing back a message repeatedly

During playback, press and hold ►■ until "↻1" appears. The selected message will be played back repeatedly.
To resume normal playback, press ►■ again.

Selecting the playback mode



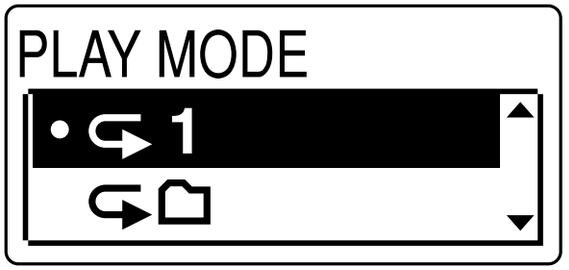
You can select the playback mode in the menu.

1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "PLAY MODE," and then press ENT.

3 Press ▲ or ▼ on the control button to select "1," "," "ALL," " 1," " ," or " ALL," and then press ENT.



1	A message is played back.
🗀	Messages in one folder are played back continuously.
ALL	All the messages are played back continuously.
↻ 1	One message is played back repeatedly.
↻ 🗀	Messages in one folder are played back repeatedly.
↻ ALL	All the messages are played back repeatedly.

Playing back a specified section repeatedly – A-B Repeat

1 During playback, press ↻ (repeat) A-B to specify the starting point A.

"A-B B?" is displayed.

2 Press ↻ (repeat) A-B again to specify the finishing point B.

"↻ A-B" is displayed and the specified section is played back repeatedly.

To resume normal playback

Press ►■.

To stop A-B Repeat playback

Press ■ (stop).

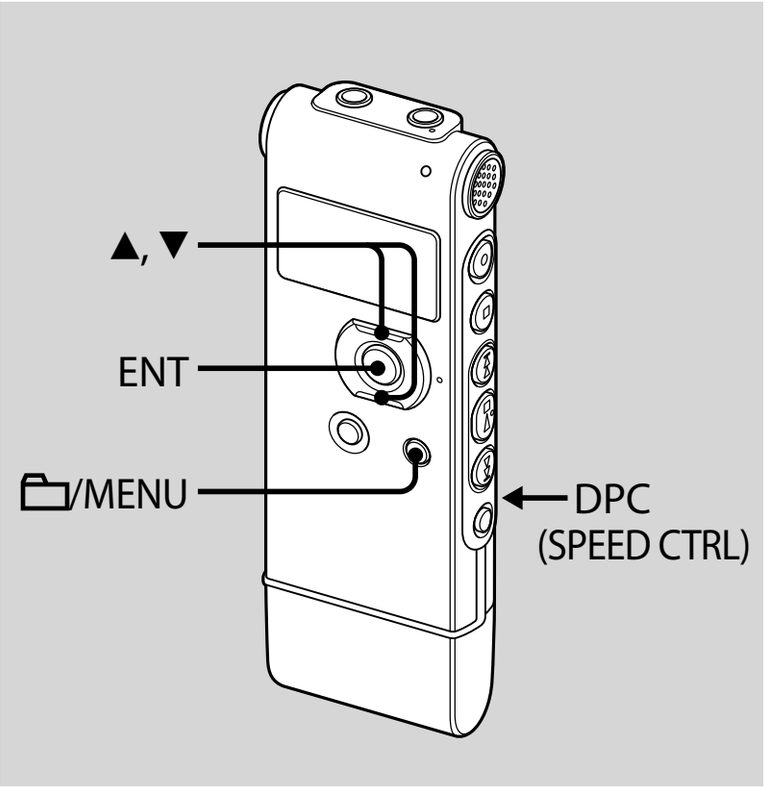
To change the segment specified for A-B Repeat playback

During A-B Repeat playback, press ↻ A-B again to specify a new starting point A. Then specify a new finishing point B, as in step 2.

Note

You cannot specify the finishing point B before the starting point A that has been set.

Adjusting the playback speed – the DPC function



When you slide the DPC (Digital Pitch Control) (SPEED CTRL) switch to "ON," you can adjust the playback speed between +100% and –50%* of normal speed in the menu.
The message is played back in natural tones thanks to the digital processing function.

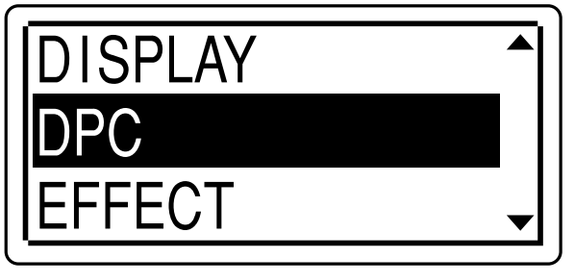
* You can only adjust the playback speed between 0 and –50% when messages are recorded as WMA files.

1 Slide the DPC (SPEED CTRL) switch to "ON."

2 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

3 Press ▲ or ▼ on the control button to select "DPC," and then press ENT.



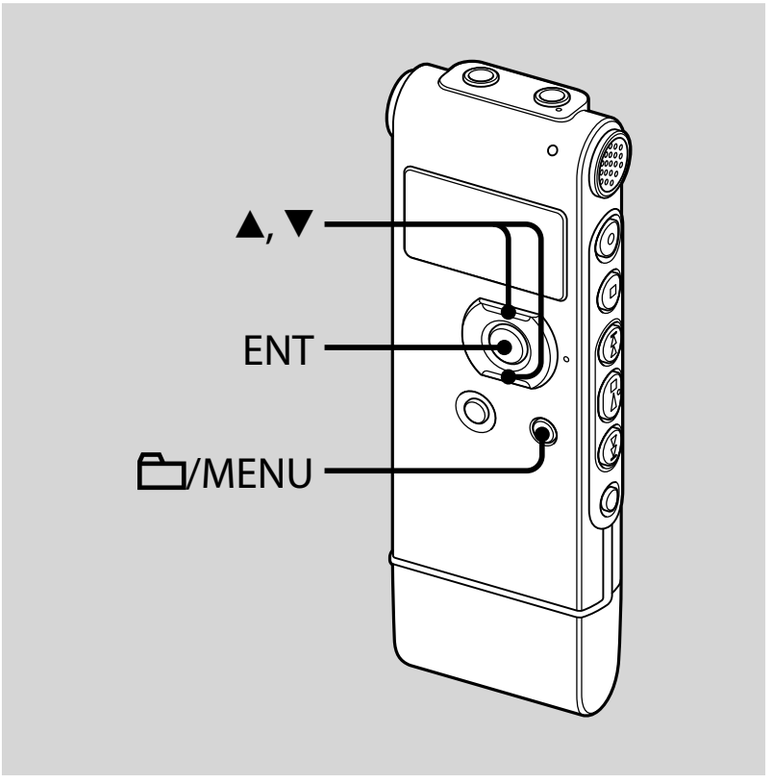
4 Press ▲ or ▼ on the control button to adjust the speed of the playback.

You can set the speed by 10% for + setting and by 5% for – setting.

To resume normal playback

Slide the DPC (SPEED CTRL) switch to "OFF."

Selecting the sound effect



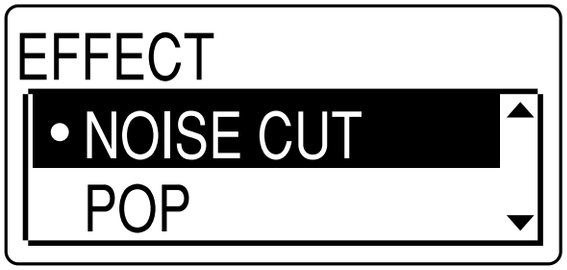
You can set the effect you want for the playback in the menu. However, when you play back using the built-in speaker, this setting is invalid.

1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

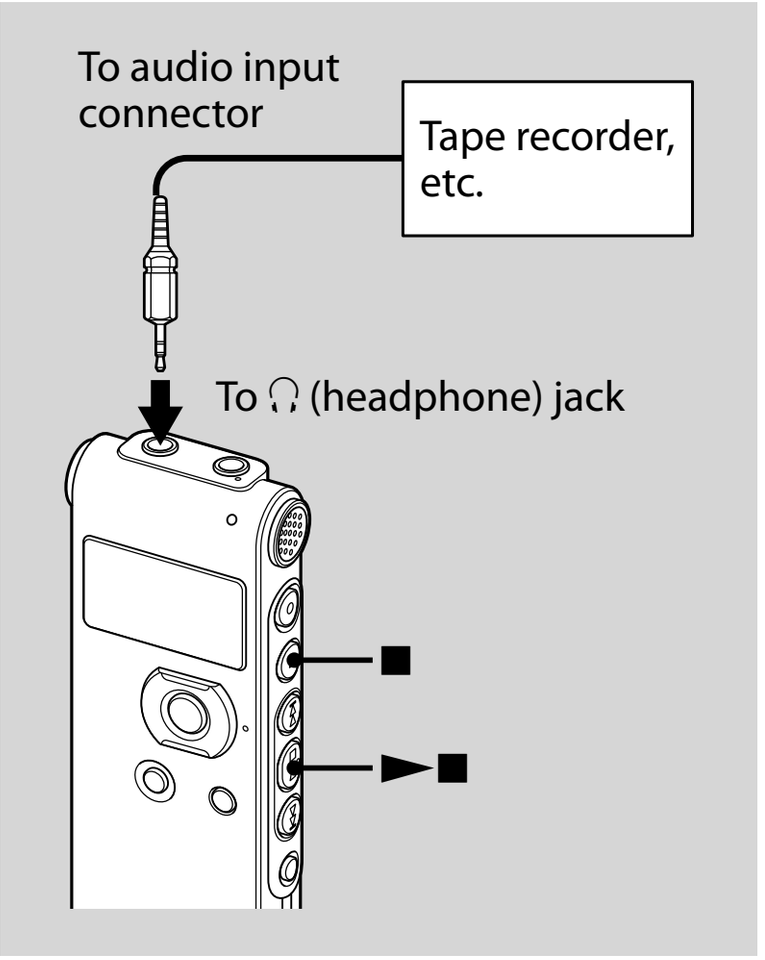
2 Press ▲ or ▼ on the control button to select "EFFECT," and then press ENT.

3 Press ▲ or ▼ on the control button to select effect you want for the playback, and then press ENT.



NOISE CUT	Reduces distortion to make the human voice clearer.
POP	Stresses middle ranges, ideal for vocals.
ROCK	Emphasizes high and low ranges for a powerful sound.
JAZZ	Emphasizes high ranges for lively sound.
BASS 1	Emphasizes the bass sound.
BASS 2	Emphasizes the bass sound even more.
OFF	The EFFECT function does not work.

Recording with other equipment



To record the sound of the IC recorder with other equipment, connect the ∩ (headphone) jack of the IC recorder to the audio input connector (minijack, stereo) of other equipment using an audio connecting cable*.

1 Connect the ∩ (headphone) jack of the IC recorder to the audio input connector (stereo minijack) of other equipment using an audio connecting cable*.

2 Press ►■ to start playback and at the same time set the connected equipment to the recording mode.

A message 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.

*** Optional audio connecting cables (not supplied)**

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug (without resistor)	Mini-plug (monaural) (without resistor)
RK-G136	Stereo mini-plug (without resistor)	Stereo mini-plug (without resistor)

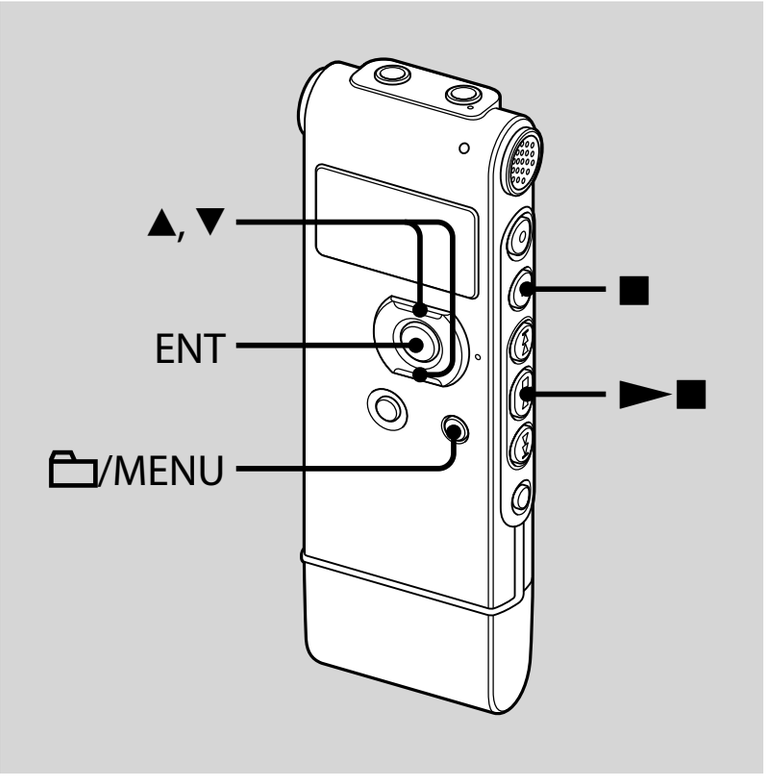
Note

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

Tip

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

Playing Back a Message at a Desired Time with an Alarm



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

1 Select the message you want to play back with an alarm.

2 Enter the alarm setting mode.

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

② Press ▲ or ▼ on the control button to select "ALARM," and then press ENT.

③ Press ▲ or ▼ on the control button to select "ON," and then press ENT.

3 Set the alarm date and time.

① Press ▲ or ▼ on the control button to select "DATE," a day of the week, or "DAILY," and then press ENT.

② **When you select "DATE":**
Set the year, month, day, hour, and minute in sequence, as described in "Step 2: Setting the Clock" on page 15, then press ENT.
When you select a day of the week or "DAILY":
Press ▲ or ▼ on the control button to set the hour and then press ENT, press ▲ or ▼ on the control button to set the minute and then press ENT.

The setting process is finished and "((•))" (alarm indicator) appears in the display window.

When the set date and time comes

At the set time, the alarm will sound for about 10 seconds while "ALARM" is displayed in the display window and the selected message will be played back. When the playback ends, the IC recorder will stop automatically at the beginning of that message.

To listen to the same message again

Press ►■, and the same message will be played back from the beginning.

To stop the alarm before the playback starts

Press ■ (stop) while the alarm sound is heard. You can stop the alarm playback even when the HOLD function is activated.

To change the alarm setting

Start from step 2 on page 46.

To cancel the alarm setting

Follow steps 1 and 2-② on page 46. In step 2-③, press ▲ or ▼ on the control button to select "OFF," and press ENT. The alarm will be cancelled and the alarm indicator will disappear from the display window.

Notes

- You can set only one alarm.
- When the clock has not been set or no messages are recorded, you cannot set the alarm.
- The alarm sounds even if you set "BEEP" to "OFF" in the menu (page 66).
- If the alarm time comes during recording, the alarm will sound after the recording is finished. "((•))" will flash when the alarm time comes.
- The alarm set for "DATE" will be cancelled when the alarm playback finishes.
- If you delete a message on which you have set an alarm, that alarm will be also cancelled.

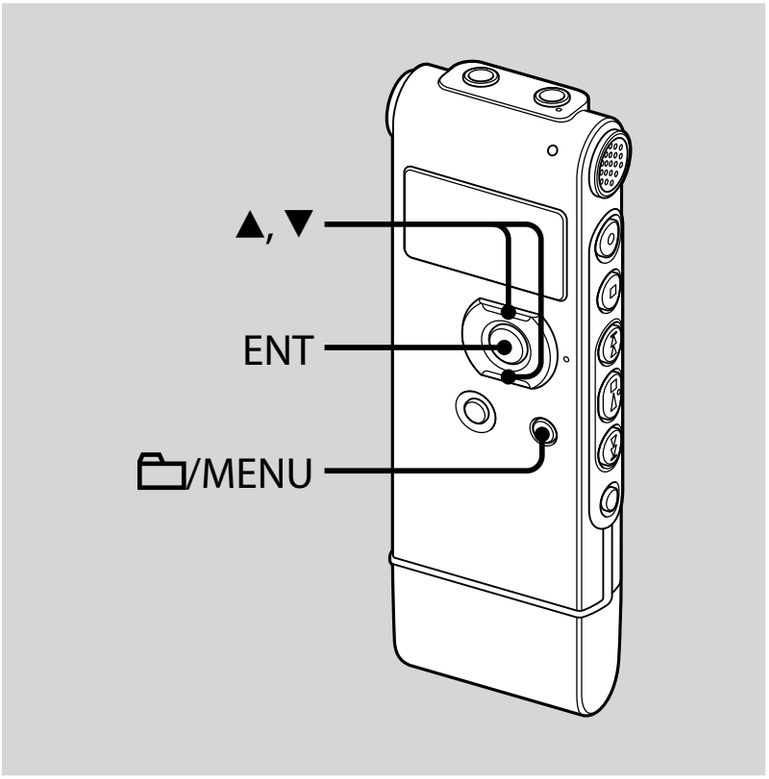
Erasing Messages

You can erase the recorded messages one by one or all messages in a folder at a time.

Note

Once a recording has been erased, you cannot retrieve it.

Erasing messages one by one



You can erase unwanted messages, retaining all other messages when the IC recorder is in the stop or playback mode. When a message is erased, the remaining messages will advance and be renumbered so that there will be no space between messages.

1 Select the message you want to erase.

2 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

3 Press ▲ or ▼ on the control button to select "ERASE A FILE," and then press ENT.

The message to be erased will be played back.

4 Press ▲ or ▼ on the control button to select "EXECUTE," and then press ENT.

"ERASING …" appears in the display window and the selected message will be erased.

To cancel erasing

Select "CANCEL" in step 4, and then press ENT.

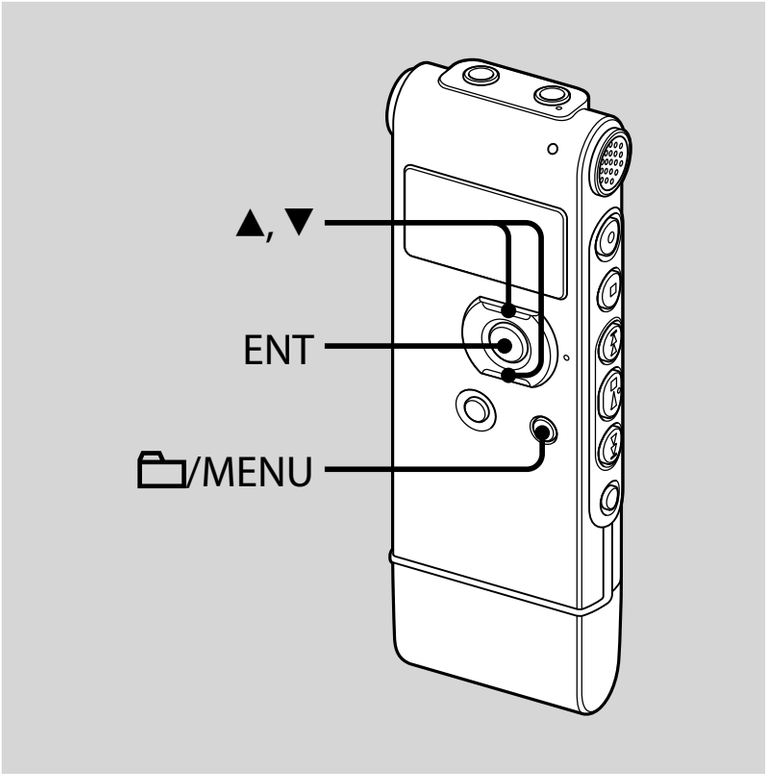
To erase another message

Proceed with the same steps again from the beginning.

To erase a part of one message

Divide the message into two messages first, and then proceed with the same steps from the beginning.

Erasing all messages in a folder



1 Select the folder containing the messages you want to erase when the IC recorder is in the stop mode.

2 Press and hold 🗀/MENU to enter the menu mode.

The menu mode window will be displayed.

3 Press ▲ or ▼ on the control button to select "ERASE ALL," and then press ENT.

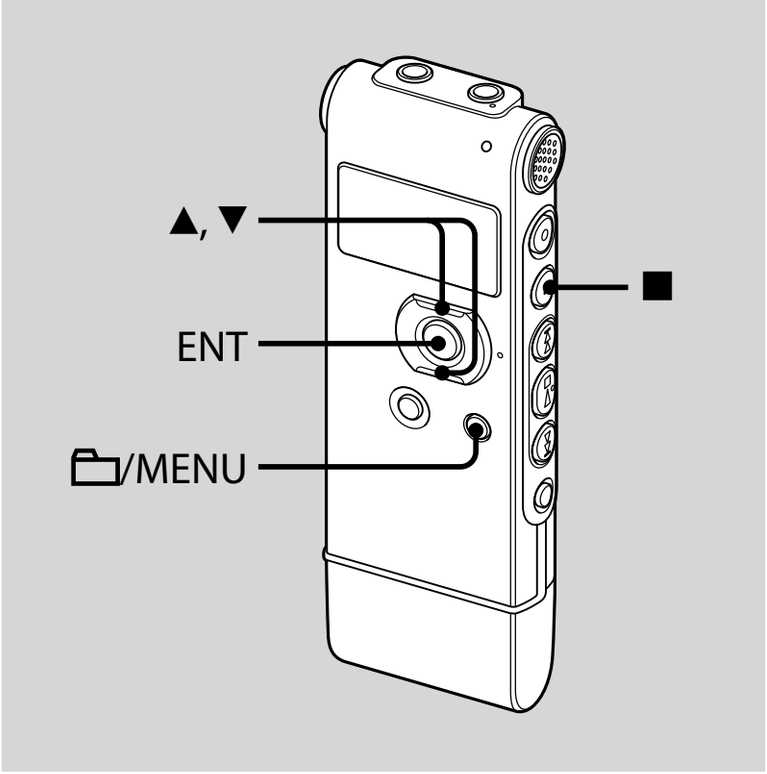
4 Press ▲ or ▼ on the control button to select "EXECUTE," and then press ENT.

"ERASING …" appears in the display window and all messages in the selected folder will be erased.

To cancel erasing

Select "CANCEL" in step 4, and then press ENT.

Moving a Message to a Different Folder



Notes

- When "📁" is displayed for the folder indicator, you cannot move a message (page 72).
- You cannot move a message to a 📁 folder.

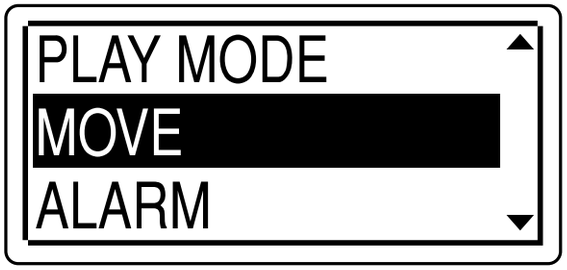
1 Select the message you want to move.

2 Press and hold 🗀/MENU to enter the menu mode.

The menu mode window will be displayed.

3 Press ▲ or ▼ on the control button to select "MOVE," and then press ENT.

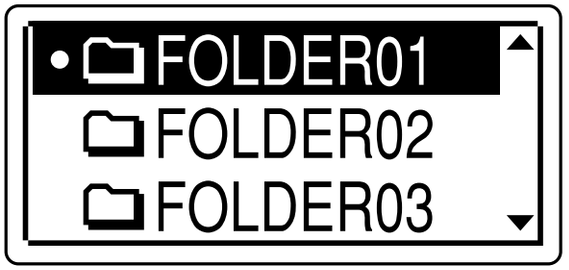
The message to be moved will be played back.



4 Press ▲ or ▼ on the control button to select the folder that you want to move the message into, and then press ENT.

"EXECUTING…" is displayed and the message is moved to the last position in the destination folder.

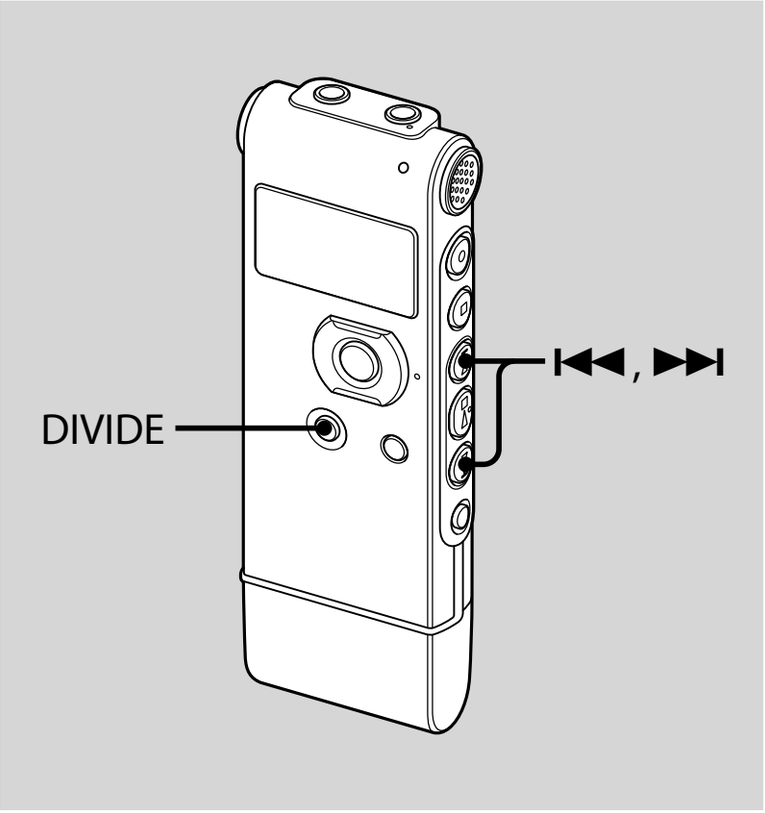
When you move a message to another folder, the original message in the previous folder will be deleted.



To cancel moving the message

Press ■ (stop) before step 4.

Dividing a Message into Two



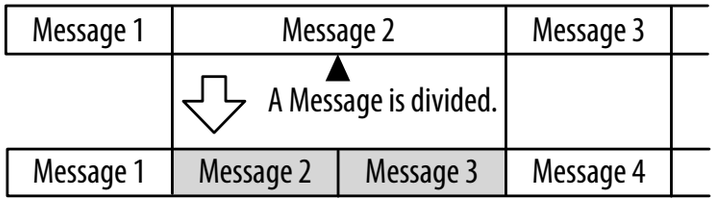
You can divide a message during playback, so that the message is divided into two parts and a new message number is added to the newer part of the divided message. By dividing a message, you can easily find the point from which you want to play back when you make a long recording such as at a meeting. You can divide a message until the total number of messages in the folder reaches 99.

1 Press DIVIDE while you are playing back the message you want to divide.

"DIVIDE? PRESS [DIVIDE]" appears with the message title.

2 Press DIVIDE.

"DIVIDING…" appears, a new number is added to the newer part of the divided message, and the message numbers of the following messages will be incremeted by one.



The message numbers are incremeted.

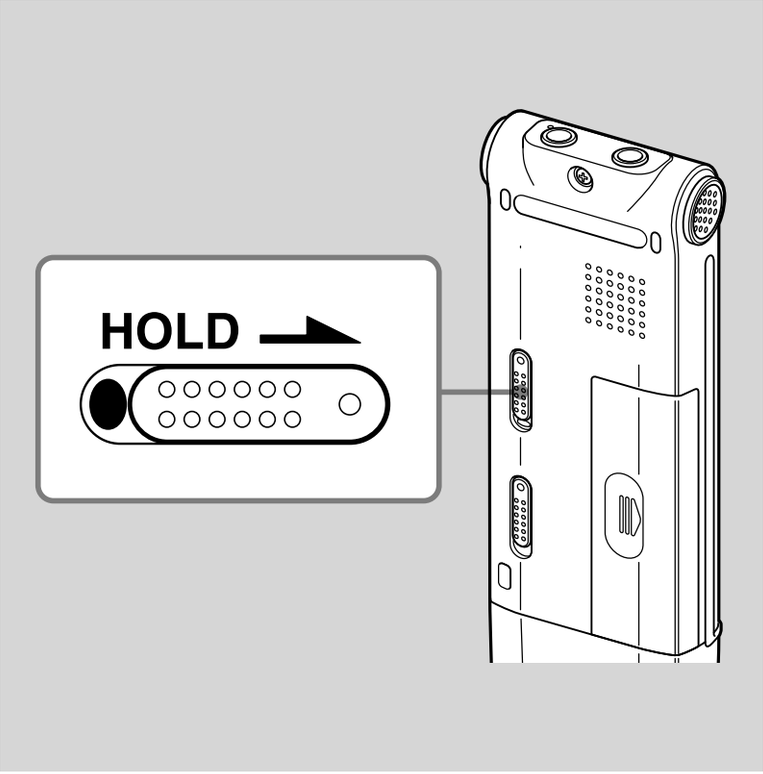
Notes

- You need a certain amount of free space in the memory to divide a message. For more information, see "System Limitations" on page 100.
- When you divide a message with a title and artist name, the newer part has the same title, artist name, and file name.
- You cannot divide a message other than the one recorded using the IC recorder (MP3/ WMA file transferred from a computer).
- Once a message is divided, you cannot combine divided messages using the IC recorder.
- If you divide a message frequently, the unit may become unable to divide the message further.
- If you divide a message with an alarm setting, the same alarm setting remains only with the former message divided.
- You cannot divide a message at the very beginning (0.5 seconds from the beginning) or at the very end (0.5 seconds prior to the end) of the message.

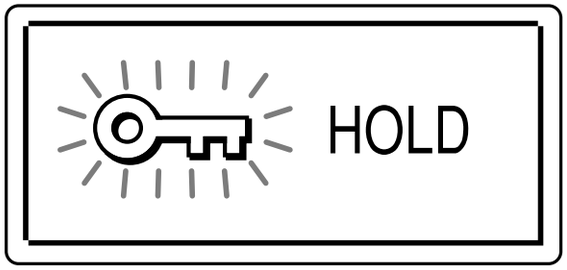
To play the divided message

Press ⏮ or ⏭ to display the message number, as the divided messages now each have message numbers.

Preventing Accidental Operation – the HOLD function



To prevent accidental operation, slide the HOLD switch in the direction of arrow in the recording or playback mode.
"HOLD" will appear indicating that all the functions of the buttons are locked.



To cancel the HOLD function

Slide the HOLD switch in the opposite direction from that of the arrow.

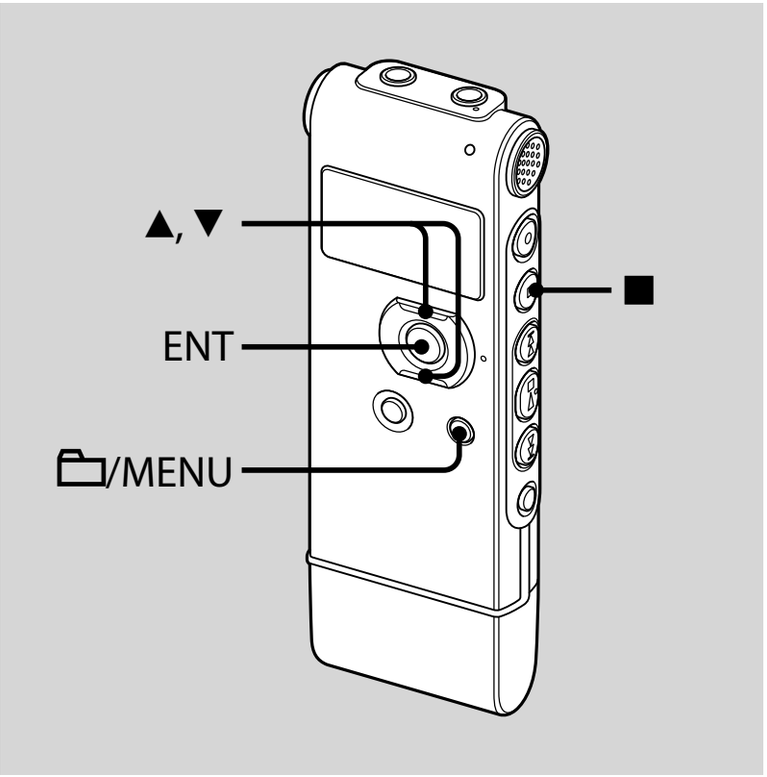
Note

When the HOLD function is activated during recording, cancel the HOLD function first to stop recording.

Tip

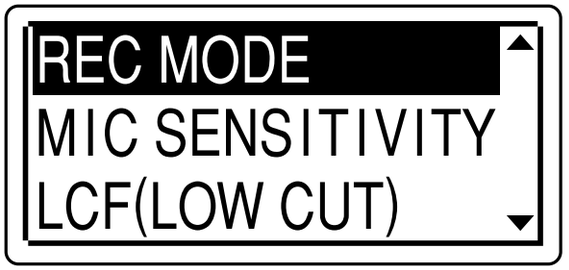
Even if the HOLD function is activated, you can stop the alarm playback. To stop the alarm or playback, press ■ (stop).

Making Settings for the Menu

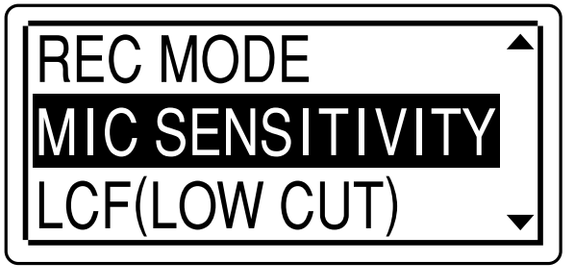


1 Press and hold /MENU to enter the menu mode.

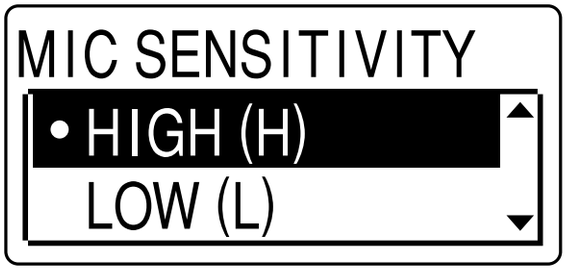
The menu mode window will be displayed.



2 Press ▲ or ▼ on the control button to select the menu item for which you want to make setting, and then press ENT.



3 Press ▲ or ▼ on the control button to select the setting that you want to set, and then press ENT.



4 Press ■ (stop) to exit the menu mode.

Note

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

To return to the previous window

Press 🗀/MENU during menu mode.

To exit the menu mode

Press ■ (stop).

Menu settings

Menu items	Settings	Operation mode (○ : the setting can be made/ — : the setting cannot be made)				
		Stop mode	Playback mode	Recording mode	FM radio mode	FM radio recording mode
REC MODE	ST, STSP, STLP, SP, LP	○	—	—	○	—
MIC SENSITIVITY	HIGH (H), LOW (L)	○	—	○	—	—
LCF (LOW CUT)	ON, OFF	○	—	○	—	—
VOR	ON, OFF	○	—	○	—	—
DISPLAY	ELAPSE, REMAIN, REC DATE, REC TIME	○	○	○	—	○
DPC	n% (n=–50 - +100)	○	○	—	—	—
EFFECT	NOISE CUT, POP, ROCK, JAZZ, BASS1, BASS2, OFF	○	○	—	—	—
EASY SEARCH	ON, OFF	○	○	—	—	—
PLAY MODE	1, 🗀, ALL, ↻ 1, ↻ 🗀, ↻ ALL	○	○	—	—	—
MOVE	(Folder to be moved)	○	○	—	—	—
ALARM	ON, OFF	○	○	—	—	—
ERASE ALL	EXECUTE, CANCEL	○	—	—	—	—
ERASE A FILE	EXECUTE, CANCEL	○	○	—	—	—
FM RADIO*		○	—	—	—	—
AUTO PRESET*	EXECUTE, CANCEL	—	—	—	○	—
DX/LOCAL*	DX, LOCAL	—	—	—	○	○
SCAN SENSITIVITY*	HIGH (SCAN H), LOW (SCAN L)	—	—	—	○	—

Menu items	Settings	Operation mode (○ : the setting can be made/ — : the setting cannot be made)				
		Stop mode	Playback mode	Recording mode	FM radio mode	FM radio recording mode
AUDIO OUTPUT*	HEADPHONES, SPEAKER	—	—	—	○	○
DETAIL MENU		○	—	—	—	—
SYNC REC	ON, OFF	○	—	—	—	—
SELECT INPUT	MIC IN, AUDIO IN	○	—	—	—	—
DATE&TIME	_ _ y _ _ m _ _ d _ _ : _ _	○	—	—	—	—
TIME DISPLAY	12-HOUR, 24-HOUR	○	—	—	—	—
FORMAT	EXECUTE, CANCEL	○	—	—	—	—
BEEP	ON, OFF	○	—	—	—	—
LED	ON, OFF	○	—	—	—	—
BACKLIGHT	ON, OFF	○	—	—	—	—

* for ICD-UX71F/UX81F only

Menu items	Settings (*: Initial setting)	See page
REC MODE	**Sets the recording mode.** ST*: Stereo high-quality recording mode. STSP: Stereo standard recording mode. STLP: Stereo long play recording mode. SP: Monaural standard play recording mode. LP: Monaural long play recording mode.	22
MIC SENSITIVITY	**Sets the microphone sensitivity.** HIGH (H)*: To record at meeting or in a quiet and/or spacious place. LOW (L): To record dictation, or record in a noisy place.	24
LCF (LOW CUT)	**Sets the LCF (Low Cut Filter) function to cut a low frequency to reduce the roaring noise from wind; therfore you can record a message more clearly.** ON: The LCF function is activated. OFF*: The LCF function is cancelled.	25

Menu items	Settings (*: Initial setting)	See page
VOR	**Sets the VOR (Voice Operated Recording) function.** ON: Recording starts when the IC recorder detects sound and pauses when no sound is heard, eliminating recording during soundless periods. The VOR function is activated when ● (record/pause) is pressed. OFF*: The VOR function does not work.	26
DISPLAY	**Changes the display mode.** ELAPSE*: Elapsed playback time of one message REMAIN: During stop or playback, the remaining time of the message During recording, the available recording time REC DATE: Date recorded REC TIME: Time recorded	–
DPC	**Sets the DPC (Digital Pitch Control) function.** When you set the DPC (SPEED CTRL) switch to "ON," you can adjust the speed of the playback in a range from +100% to –50%. Set the speed by 10% for + setting and by 5% for – setting. –30%* **Note** You can only adjust the playback speed between 0 and -50% when messages are recorded as WMA files.	42

Menu items	Settings (*: Initial setting)	See page
EFFECT	**Sets the effect you want for the playback in the menu.** NOISE CUT Reduces distortion to make the human voice clearer. POP: Stresses middle ranges, ideal for vocals. ROCK: Emphasizes high and low ranges for a powerful sound. JAZZ: Emphasizes high ranges for a lively sound. BASS1: The bass sound is emphasized. BASS2: The bass sound is emphasized even more. OFF*: The EFFECT function does not work. **Note** When playing back messages using a built-in speaker, the EFFECT function does not work.	43
EASY SEARCH	**Sets the easy search function.** ON: You can go forward for about 10 seconds by pressing ⏭ and go back for about 3 seconds by pressing ⏮. 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 message will be moved forward or backward.	37

Menu items	Settings (*: Initial setting)	See page
PLAY MODE	**Sets the playback mode.** 1: A message is played back. 🗀 *: Messages in one folder are played back continuously. ALL: All the messages are played back continuously. ↻ 1: One message is played back repeatedly. ↻🗀: Messages in one folder are played back repeatedly. ↻ ALL: All the messages are played back repeatedly.	40
MOVE	**The selected message will be moved to the selected folder.** Before attempting to move a message, select the message to be moved and then go to the menu window.	51
ALARM	**Sets the alarm.** ON: To set the alarm, select "ON" and set the date, time or day of the week or choose daily for playback. OFF*: The alarm is cancelled.	46

Menu items	Settings (*: Initial setting)	See page
ERASE ALL	**All messages in the selected folder will be erased.** Press 🗀/MENU to return to the folder window before erasing the messages and select a folder from which all messages are to be erased, and then go to the menu window and select "EXECUTE."	50
ERASE A FILE	**The selected message will be erased.** Before erasing the message, select a message to be erased, and then go to the menu window and select "EXECUTE."	49
FM RADIO**	**The IC recorder enters FM radio mode.**	81
AUTO PRESET**	**Scans automatically for available frequencies. The stations will be stored in memory.** EXECUTE : The automatic presetting is activated. CANCEL* : The automatic presetting is cancelled.	86
DX/LOCAL**	**Sets the receiver sensitivity when listening to the FM radio.** DX* : When the receiving signal is strong enough to receive, select this setting. LOCAL : When the receiving signal is weak to receive, select this setting.	84

** for ICD-UX71F/UX81F only

Menu items	Settings (*: Initial setting)	See page
SCAN SENSITIVITY**	**Sets the scanning sensitivity when presetting FM radio stations.** HIGH (SCAN H)*: The scanning sensitivity is set to high. LOW (SCAN L) : The scanning sensitivity is set to low.	87
AUDIO OUTPUT**	**During FM reception or FM recording, you can switch between the sound from the speaker and the sound from the headphones.** HEADPHONES* : The sound comes out from the headphones. SPEAKER : The sound comes out from the speaker (s).	83
DETAIL MENU		
SYNC REC	**When set to "ON," the IC recorder enters the recording pause mode when no sound is detected for more than 2 seconds, and the IC recorder starts recording again as a new message when any sound is detected.** ON: The synchronized recording function is activated. OFF*: The synchronized recording function is cancelled.	31
SELECT INPUT	**Selects the external input to be recorded that is connected to the (microphone) jack.** MIC IN*: Select when you record messages using an external microphone. AUDIO IN: Select when you record using other equipment.	29, 32

Menu items	Settings (*: Initial setting)	See page
DATE & TIME	Sets the clock by setting year, month, day, hour, and minute in sequence.	16
TIME DISPLAY	Sets the clock display. 12-HOUR*: 12:00AM = midnight, 12:00PM = noon 24-HOUR: 0:00 = midnight, 12:00 = noon	–
FORMAT	Sets the formatting of the drive. EXECUTE: "FORMATTING …" appears and the drive will be formatted. CANCEL*: The drive will not be formatted. **Notes** • Use the IC recorder formatting function to format the memory. • When the memory is formatted, all the data stored in the IC recorder will be erased. Once the memory has been erased, you cannot retrieve the data that was erased.	–
BEEP	Sets whether a beep will be heard or not. ON*: A beep will sound to indicate that an operation has been accepted. OFF: No beep sound will be heard. **Note** The alarm sounds even if you set "BEEP" to "OFF" in the menu.	–

Menu items	Settings (*: Initial setting)	See page
LED	**Turns the operation indicator on or off during operation.** ON*: During recording or playback, the operation indicator lights or flashes. OFF: The operation indicator does not light or flash, even during operation. **Note** When the IC recorder is connected to a computer, the operation indicator lights or flashes even if "LED" is set to "OFF."	–
BACKLIGHT	**Turns the backlight in the display window on or off.** ON*: The backlight in the display window lights up for 10 seconds. OFF: The backlight in the display window does not light, even during operation.	–

Using the IC Recorder with Your Computer

System requirements

Operating systems:

Windows Vista® Ultimate
Windows Vista® Business
Windows Vista® Home Premium
Windows Vista® Home Basic
Windows® XP Media Center Edition 2005 Service Pack 2 or higher
Windows® XP Media Center Edition 2004 Service Pack 2 or higher
Windows® XP Media Center Edition Service Pack 2 or higher
Windows® XP Professional Service Pack 2 or higher
Windows® XP Home Edition Service Pack 2 or higher
Windows® 2000 Professional Service Pack 4 or higher
Mac OS X (v10.2.8-v10.5) Pre-Installed

Notes

- Operation is not guaranteed if any operating system other than those described above (Windows® 98 or Linux, etc.) is used.
- Any 64 bit operating system is not supported.
- For the latest version information and compatibility with your operating system, please access the support home page for the IC recorder:
  http://www.sony.com/recordersupport

Hardware environment:

– Port: USB port
– Sound board: Sound cards compatible with any of the supported Microsoft® Windows® operating systems

Note

The following systems are not supported:

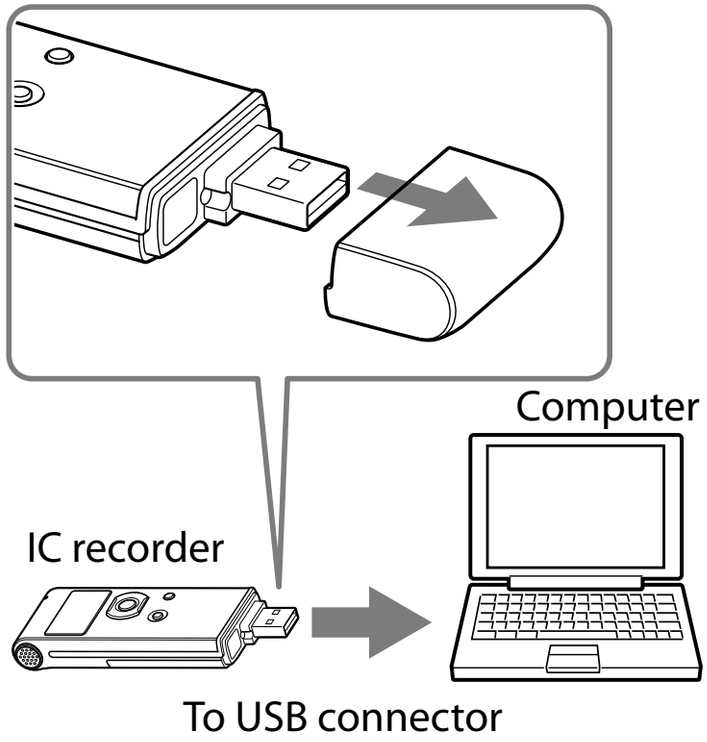
– Operating systems other than the ones indicated on the left
– Personally constructed computers or operating systems
– Upgraded operating systems
– Multi-boot environment
– Multi-monitor environment

When you are using Windows® 2000 Professional

Install the driver using "SonyRecorder_Driver.exe" in the IC recorder.

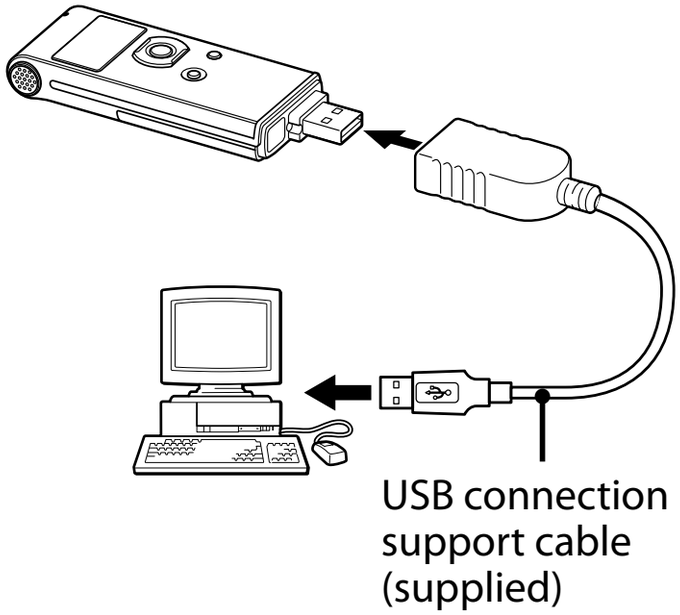
Connecting the IC recorder to your computer

You can transfer the IC recorder data onto your computer by connecting the IC recorder to the computer.
Remove the USB cap from the IC recorder and then connect the IC recorder to the USB connector of your computer.
The IC recorder is recognized by the computer as soon as the connection is made. While the IC recorder is connected to the computer, "CONNECTING" is displayed in the display window of the IC recorder.



Tip

If the IC recorder cannot be connected to the USB connector of your computer directly, use the supplied USB connection support cable.



Notes

- If you connect more than two USB devices to your computer, normal operation will not be guaranteed.
- Use of this IC recorder with a USB hub or a USB connection support cable other than the supplied cable is not guaranteed.
- A malfunction may occur depending on the USB devices connected at the same time.
- Before connecting the IC recorder to the computer, make sure that the battery is inserted in the IC recorder.
- It is recommended that you disconnect the IC recorder from the computer when you are not using the IC recorder connected to the computer.

Disconnecting the IC recorder from your computer

Follow the procedures below; otherwise, data may be damaged.

1 Make sure that the operation indicator is not flashing.

2 Disconnect the IC recorder from the USB connector of the computer.

On the Windows screen, left-click "Safely Remove Hardware" on the taskbar, and click "Safely remove USB Mass Storage Device."

On the Macintosh screen, drag the "IC RECORDER" on the desktop to "Trash" and drop it there.

For details on disconnecting the IC recorder, refer to the operating instructions supplied with your computer.

Transferring Files from Your Computer to the IC Recorder

You can play back music or language files (MP3/WMA*) from your computer using the IC recorder.

You can make an MP3/WMA file using either a player software application installed on your computer or a commercially available software application.

* For the file formats that can be played back using the IC recorder, refer to "Specifications" (page 104).

Copying a music file from your computer to the IC recorder (drag and drop)

1 Connect the IC recorder to your computer (page 69).

On the Windows screen; open "My Computer" and make sure that "IC RECORDER" has been recognized. On the Macintosh screen; make sure that an "IC RECORDER" drive is displayed on the desk top.

2 Copy the folder in which the music files are stored to the IC recorder.

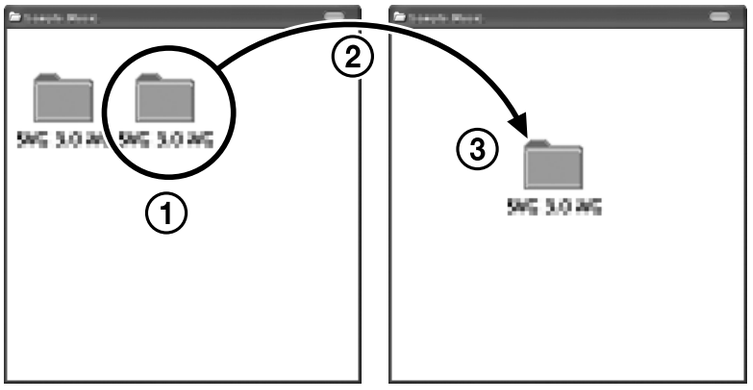
On the Windows screen using Explorer, and on the Macintosh screen using Finder, drag and drop the folder onto the IC recorder.

The IC recorder can recognize up to 500 folders. You can copy up to 999 files to one folder and up to 5,000 files in total.

Note

When you transfer a music file from your computer, you can play it back, however, you cannot divide it, or move it.

To copy a folder (Drag and drop)



① Click and hold,
② drag,
③ and then drop.

Construction of folders and files

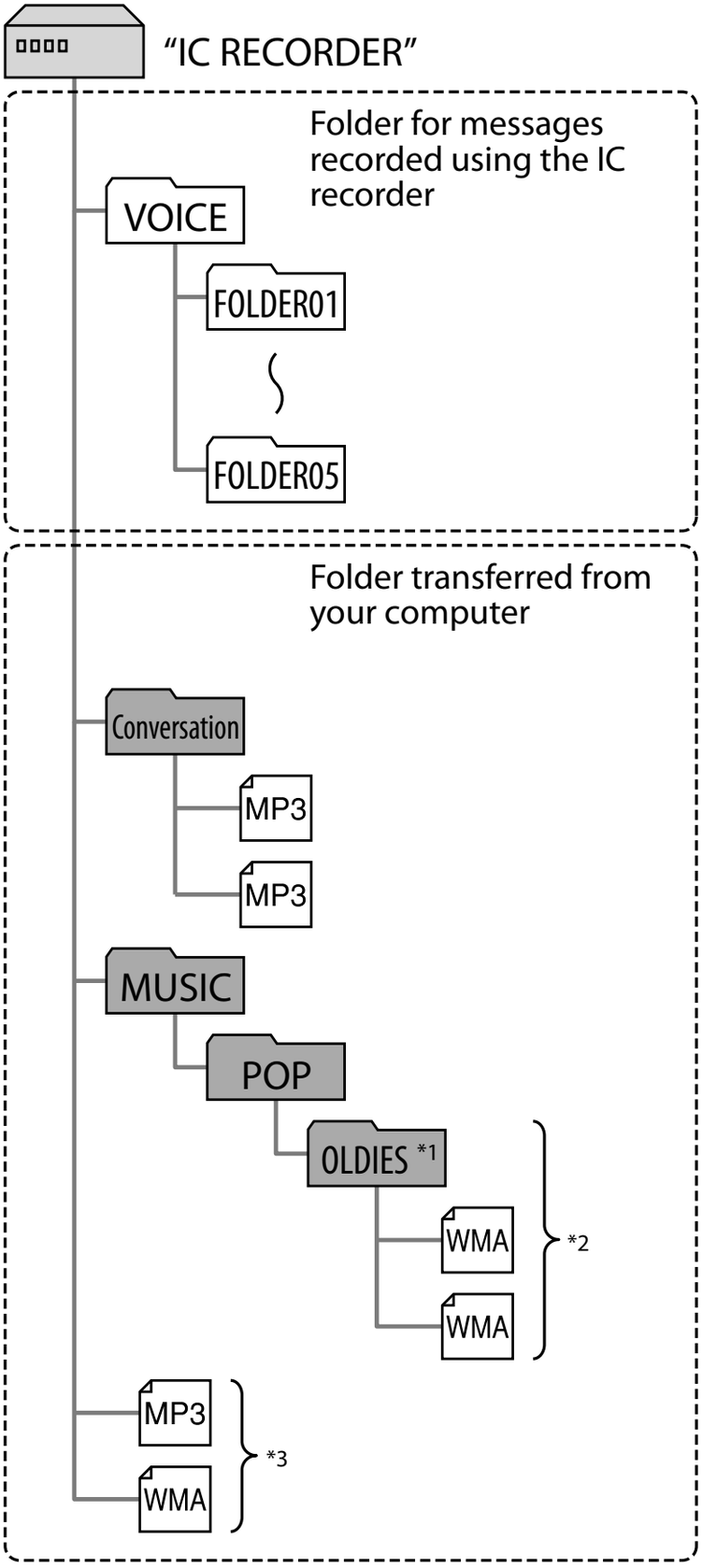
The folders and files are displayed on the computer screen as shown.
The folder indicators in the display window of the IC recorder are as follows:

: Folder for messages recorded using the IC recorder (They have been already made when you purchase the IC recorder.)

: Folder transferred from a computer (They are displayed when music files have been transferred from a computer.)

Note

You can record messages in up to 5 folders using the IC recorder.



*1 The name of a folder in which music files are stored will be displayed on the IC recorder as it is, so it is convenient if you put an easy-to-remember name on the folder in advance. Folders shown in the illustration are examples of folder names.

*2 The IC recorder can recognize up to three levels of folders copied to the IC recorder, that is, up to "OLDIES" shown in the figure.

*3 If you copy music files separately, they are classified as being in "NO FOLDER."

Tips

- You can enter title, or artist name, etc., into music files as ID3 tag information. The ID3 tag information can be displayed on the IC recorder. It is useful if you input the ID3 tag information using the software you use to make the music files on your computer.
- You can display the ID3 tag information in sequence by pressing ▲ or ▼ on the control button (page 79).

Notes

- You cannot copy 511 or more folders (except VOICE folders) or files to the root directory that is located immediately below "IC RECORDER" on the computer. This is due to Windows system limitations (ICD-UX71/UX81/UX71F/UX81F only).
- If no title, or artist name has been entered into the ID3 tag information, "Unknown" will be displayed.

Transferring Files from the IC Recorder to Your Computer

You can save files or folders by transferring them from the IC recorder to your computer.

1 Connect the IC recorder to your computer (page 69).

On the Windows screen; open "My Computer" and make sure that "IC RECORDER" has been recognized. On the Macintosh screen; make sure that an "IC RECORDER" drive is displayed on the desk top.

2 Copy files or folders you want to transfer to your computer.

Drag and drop the folders contains files you want from "IC RECORDER" to the local disc on your computer.

Using the IC Recorder as a USB Mass Storage Device

When the IC recorder is connected to your computer directly or using a USB connection support cable, image data or text data on the computer, as well as messages or files recorded using the IC recorder can be temporarily stored in the IC recorder.
Your computer must meet the operating system requirements and port environment described below to use the IC recorder as a USB mass storage device.

Operating Systems:

Windows Vista® Ultimate
Windows Vista® Business
Windows Vista® Home Premium
Windows Vista® Home Basic
Windows® XP Media Center Edition 2005 Service Pack 2 or higher
Windows® XP Media Center Edition 2004 Service Pack 2 or higher
Windows® XP Media Center Edition Service Pack 2 or higher
Windows® XP Professional Service Pack 2 or higher
Windows® XP Home Edition Service Pack 2 or higher
Windows® 2000 Professional Service Pack 4 or higher
Mac OS X (v10.2.8-v10.5) Pre-Installed

Port:

USB port

Note

The following systems are not supported:

- Any 64 bit operating systems
- Any operating systems other than the ones indicated on the left
- Personally constructed PCs or operating systems
- Upgraded operating systems
- Multi-boot environment
- Multi-monitor environment

Using Voice Recognition Software

When voice recognition software (not supplied) is installed on your computer, you can transcribe a message into a text file.

Introducing the voice recognition software

Dragon NaturallySpeaking is a speech-recognition software application that allows you to recognize and transcribe your recorded voice in a message and convert it into a text file.
For details on Dragon NaturallySpeaking, refer to the operating instructions supplied with Dragon NaturallySpeaking. For information on using Dragon NaturallySpeaking, refer to the documentation supplied with the software. For the latest version and information on the availability of Dragon NaturallySpeaking in each region, please refer to the following home page:
http://www.nuance.com

Notes

- You can use the transcribing feature only when you have installed Dragon NaturallySpeaking Select or Professional Edition (not supplied) on your computer. To install Dragon NaturallySpeaking, your computer should meet the specified system requirements.
- You can transcribe the following messages saved in your IC recorder or on your computer;
  – ST, STSP, STLP or SP recording mode messages (MP3 files)
  – 44.1/16/11 kHz 16-bit WAV files saved on your computer
- You cannot transcribe a message recording the voices of more than one person.

Creating a user file adapted to your recorded speech (Training)

What is "Training"?

Before you can transcribe recorded messages using Dragon NaturallySpeaking, you must create a user file specifically adapted to the sound of your recorded speech. This procedure is called "training."
When training is complete, Dragon NaturallySpeaking creates a user speech file containing information about your recorded speech.

- Refer to the operating instructions or the help supplied with Dragon NaturallySpeaking, as some parts of training are the same as those required for dictating directly to the computer using a headset microphone.
- Even if you have already created a user speech file with a headset microphone, you should create a separate speech file for the IC recorder to get better recognition accuracy.

Tips on using the IC recorder

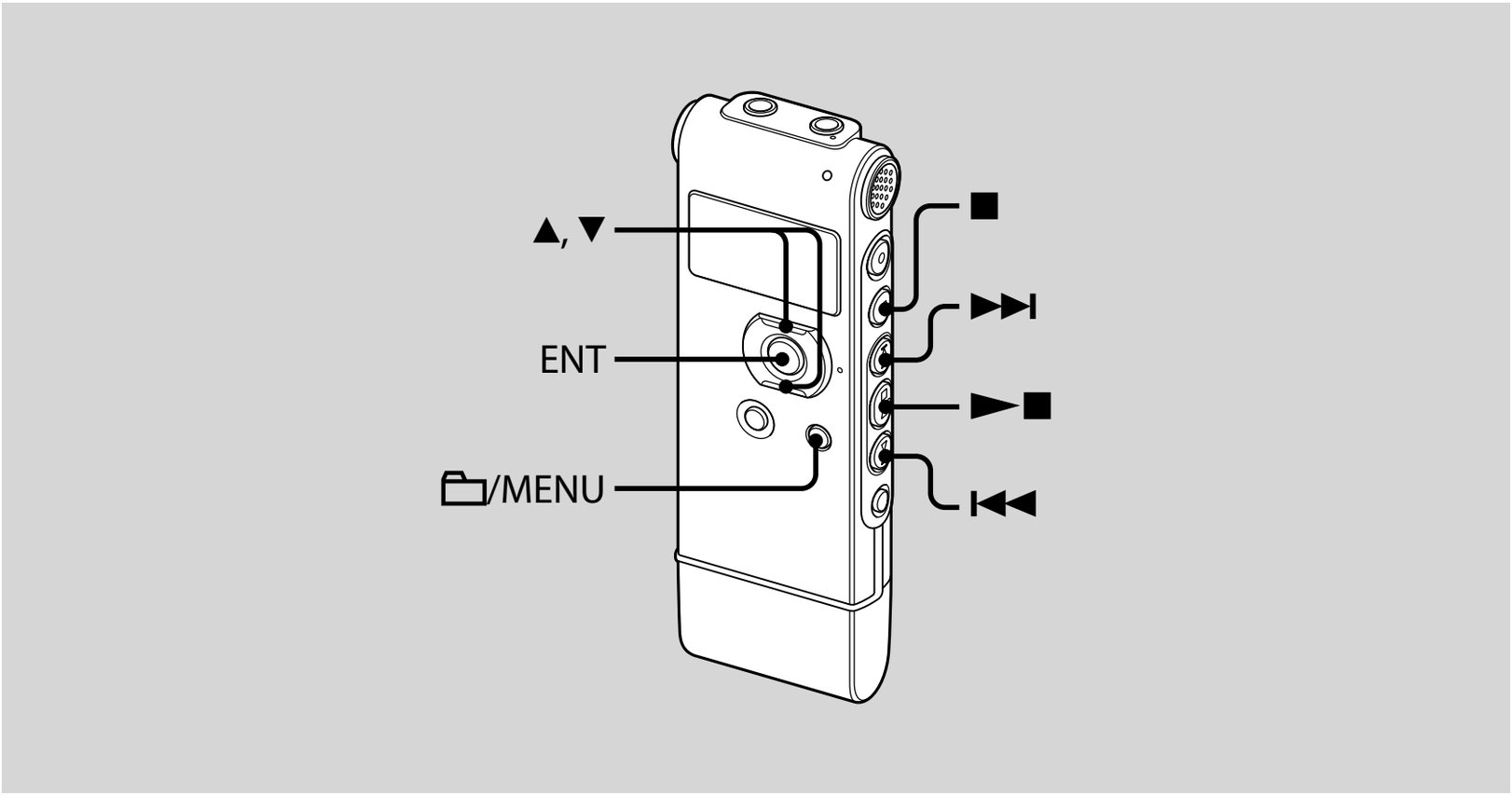
When transcribing messages recorded using the IC recorder, the following tips will help you obtain maximum recognition accuracy.

- **Set "REC MODE" to "ST," "STSP," "STLP" or "SP" in the menu.**
  When creating a user speech file (training), set "REC MODE" to the mode you normally use for voice recognition software.
- **Set "MIC SENSITIVITY" to "LOW (L)" in the menu.**
- **Hold the IC recorder firmly and start recording.**
  Hold the IC recorder so that the microphone is about an inch (2 - 3 cm) from the corner of your mouth, not directly in front of it. This minimizes the sound of your breath in the recordings, enabling maximum recognition accuracy.

Note

Avoid recording in a noisy place, such as on a subway platform, in order to obtain maximum recognition accuracy.

Playing Back Music Files



1 **Remove the IC recorder from your computer, press /MENU, press ▲ or ▼ on the control button to select the folder ( ) in which music files are stored, and then press ENT.**

2 **Press I◀◀ or ▶▶I to select the music file you want to play.**

3 **Press ►■ to start playback.**

4 **Press ■ (stop) to stop playback.**

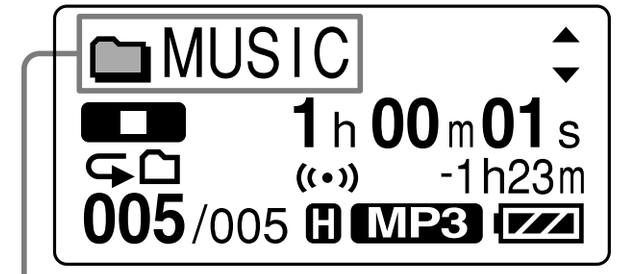
The maximum playback time (tracks*), when playing music files using the IC recorder, is as follows.

	48 kbps	128 kbps
ICD-UX71/ UX71F	47 hr. 50 min. (717 tracks)	17 hr. 55 min. (268 tracks)
ICD-UX81/ UX81F	95 hr. 55 min. (1438 tracks)	35 hr. 55 min. (538 tracks)
ICD-UX91	72 hr. (1080 tracks)	36 hr. (540 tracks)

* In the case where tracks of 4 minutes each are transferred to the IC recorder.

Display when playing back a music file

Press ▲ or ▼ on the control button to check the music file information during playback.



: Folder name
: Title*
: Artist name*
: File name

* The ID3 tag information is displayed.

Enjoying the music files more

Selecting the playback mode

You can select the playback mode, such as playback of one music file, continuous playback of music files in one folder, continuous playback of all music files, repeat playback of one music file, repeat playback of music files in one folder and repeat playback of all music files, in the menu.
For details, see page 40.

Selecting a sound effect

You can set a effect such as "NOISE CUT," "POP," "ROCK," "JAZZ," "BASS 1," or "BASS 2," for the playback item in the menu.
For details, see page 43.

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

You can adjust a playback speed between +100% and –50% of normal speed in the menu. You can only adjust the playback speed between 0 and -50% when messages are recorded as WMA files.
For details, see page 42.

Playing back a message at a desired time with an alarm

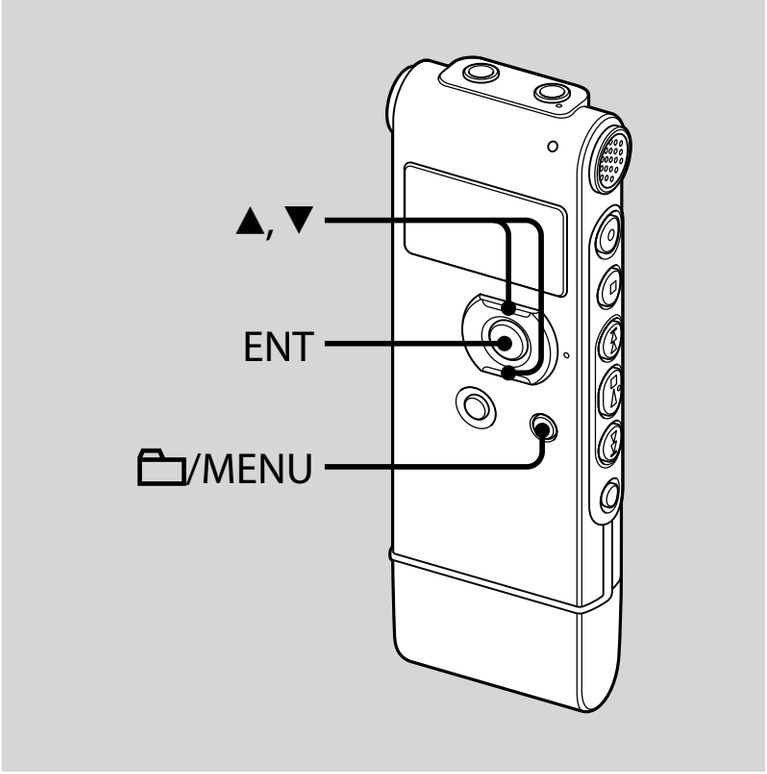
You can sound an alarm and start playback of a selected message at a desired time.
For details, see page 46.

(for ICD-UX71F/UX81F only)

The headphone cord is an FM antenna, therefore, connect the headphone when listening to the radio.

During FM reception or FM recording, you can switch between the sound from the speaker and the sound from the headphones using the menu.
For details, see page 83.

Tuning in an FM radio Station



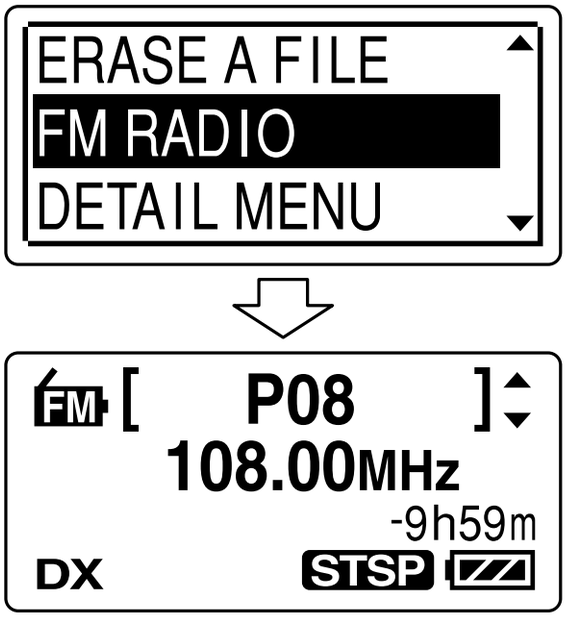
The display in the display window may be different from the actual one in some regions.

1 Press and hold 🗀/MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "FM RADIO," and then press ENT.

The IC recorder enters FM radio mode.



You can switch the display between preset number and frequency by pressing ENT.

3 Tune in a station.

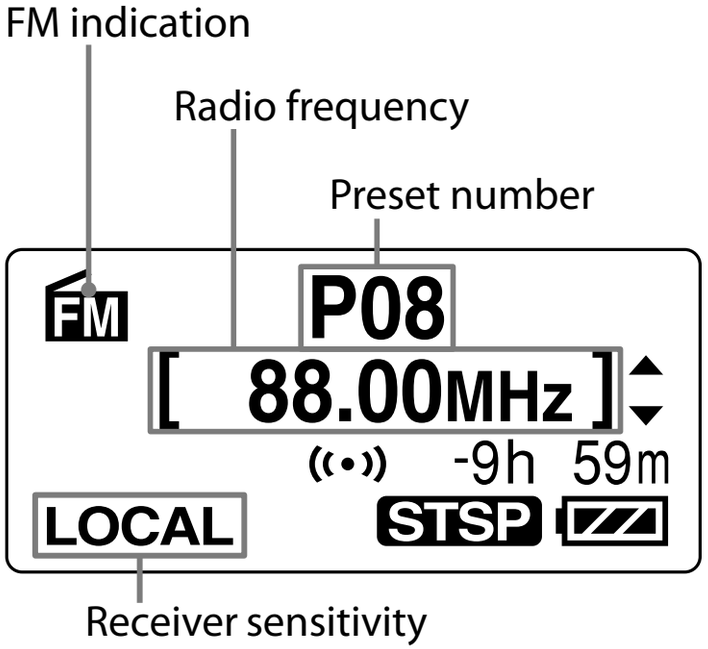
4 Press ▲ or ▼ on the control button repeatedly to tune in a station or press and hold ▲ or ▼ on the control button until the frequency digits begin to change on the display.

The IC recorder automatically scans the radio frequencies and stops when it finds a clear station.

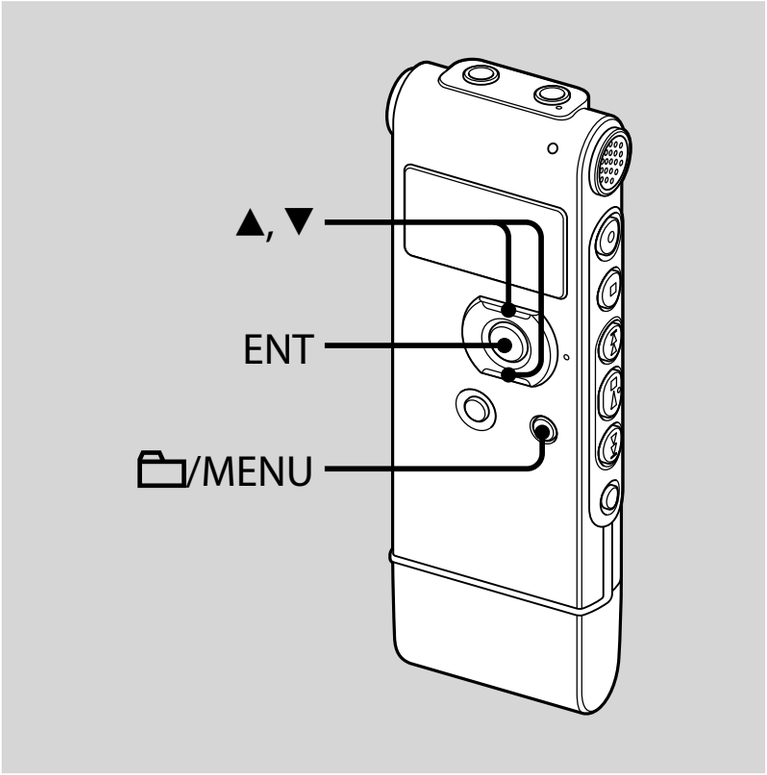
If you cannot tune in a station, press ▲ or ▼ on the control button repeatedly to change the frequency step by step.

When a station you tune in is a preset station, the preset number is displayed, otherwise, "P - -" appears instead.

Display when listening to the FM radio



Switching the FM radio output between speaker and headphones



During FM reception or FM recording, you can switch between the sound from the speaker and the sound from the headphones using the menu.
The FM radio output is set to "HEADPHONES" when you purchase the IC recorder.

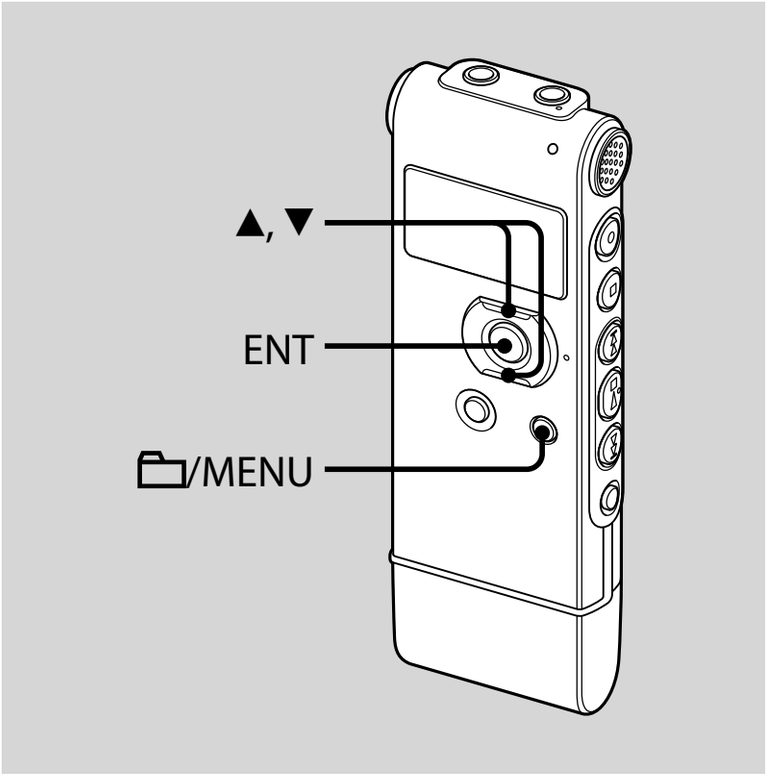
1 Press and hold 🗀/MENU to enter the menu mode when listening to the FM radio.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "AUDIO OUTPUT," and then press ENT.

3 Press ▲ or ▼ on the control button to select "HEADPHONES" or "SPEAKER," and then press ENT.

Switching the receiver sensitivity of the FM radio



You can set the receiver sensitivity when listening to the FM radio.
For details on the receiver sensitivity, refer to "DX/LOCAL" on page 64.

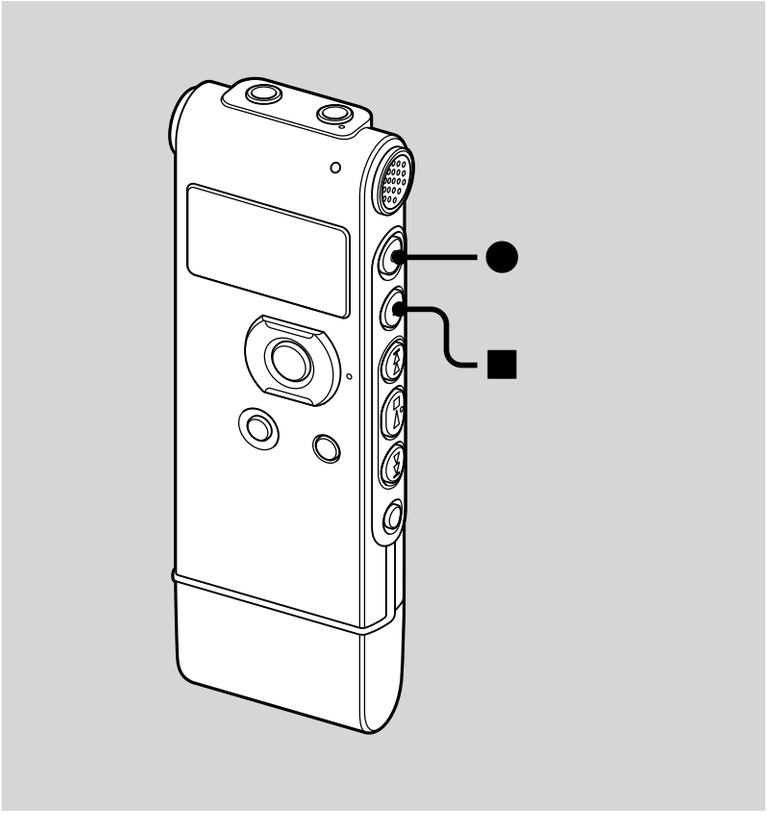
1 Press and hold 🗀/MENU to enter the menu mode when listening to the FM radio.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "DX/LOCAL," and then press ENT.

3 Press▲ or ▼ on the control button to select "LOCAL" or "DX," and then press ENT.

Recording FM broadcasts

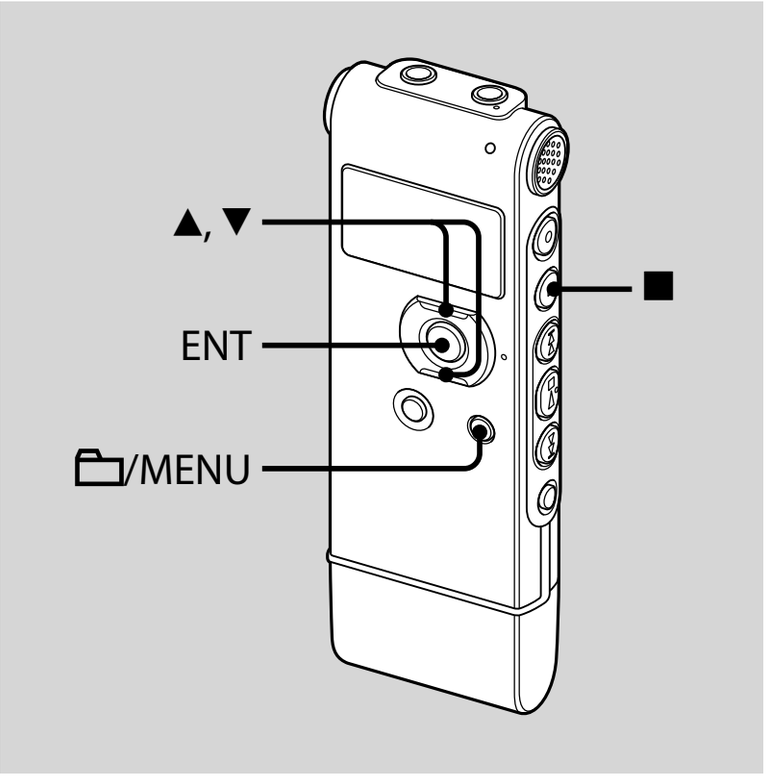


1 Tune in the station you want to record.

2 Press ● (record/pause) to start recording.

3 Press ■ (stop) to stop recording.

Presetting FM Radio Stations Automatically



The display in the display window may be different from the actual one in some regions.
You can preset up to 30 FM radio stations automatically using the preset menu.

1 Press and hold /MENU to enter the menu mode when listening to the FM radio.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "AUTO PRESET," and then press ENT.

3 Press ▲ or ▼ on the control button to select "EXECUTE," and then press ENT.

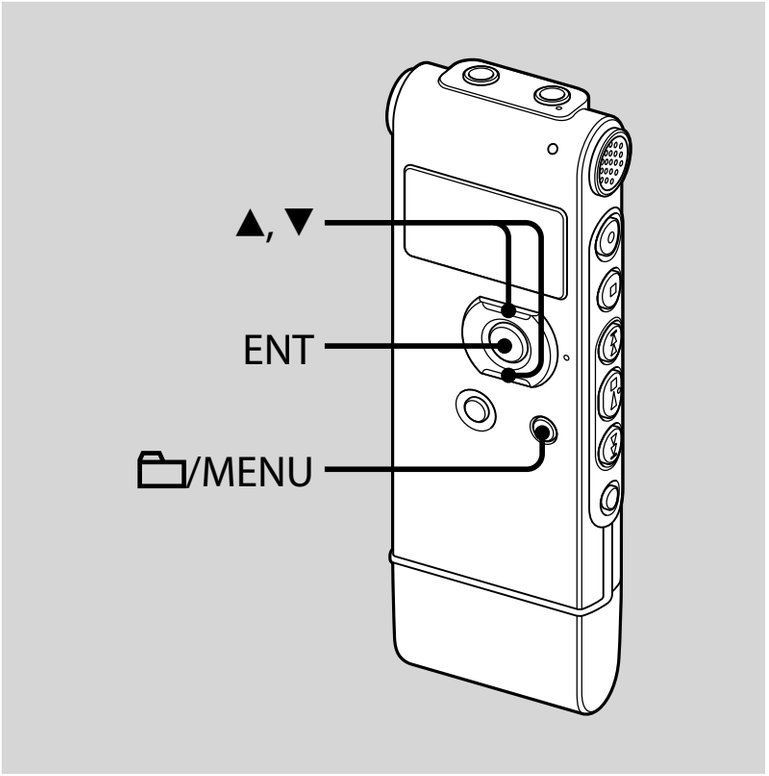
The IC recorder automatically scans for available radio frequencies and the stations will be stored in memory from the lower frequencies to the higher ones.

While presetting FM radio stations automatically, the preset number ready to be assigned flashes.

To stop the automatic presetting

Press ■ (stop). The preset numbers stored until you press the ■ (stop) button remain in memory.

Switching the scanning sensitivity

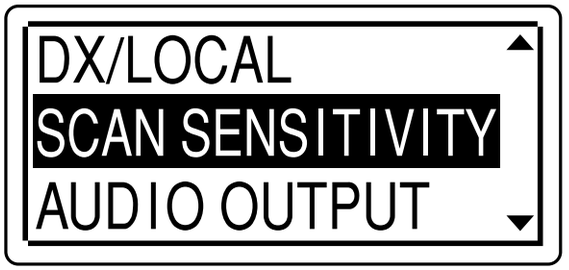


You can set the scanning sensitivity when presetting FM radio stations. The scanning sensitivity is set to "HIGH (SCAN H)" when you purchase the IC recorder.

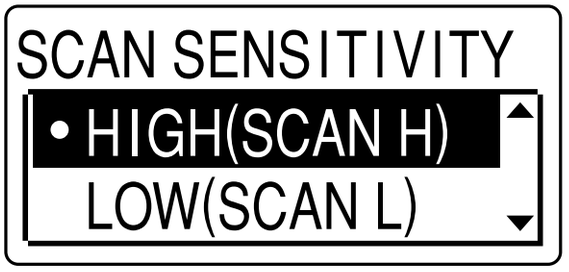
1 Press and hold 🗀/MENU to enter the menu mode when listening to the FM radio.

The menu mode window will be displayed.

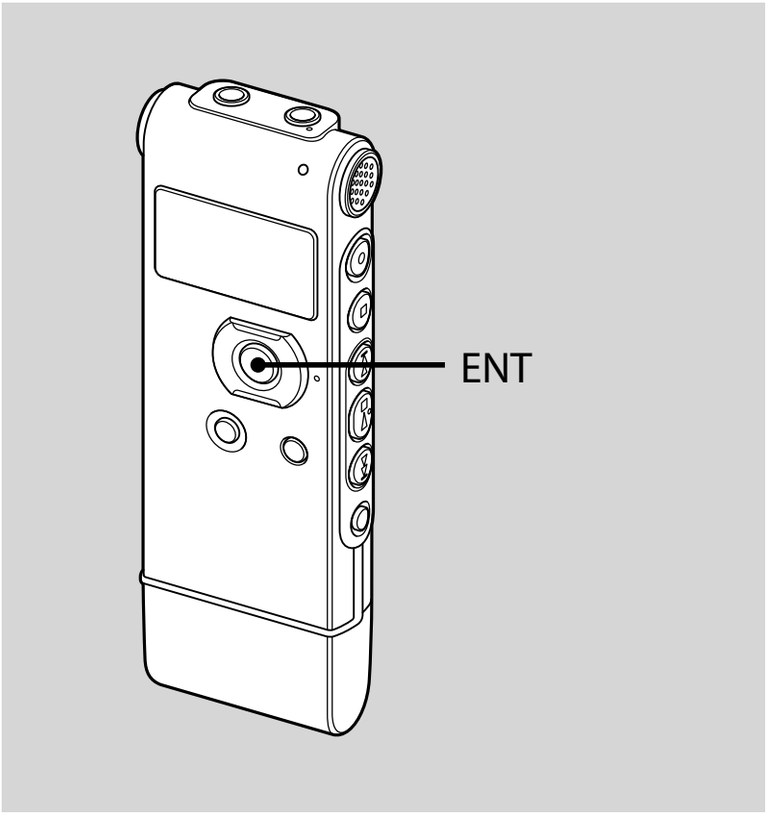
2 Press ▲ or ▼ on the control button to select "SCAN SENSITIVITY" and then press ENT.



3 Press ▲ or ▼ on the control button to select "HIGH (SCAN H)" or "LOW (SCAN L)," and then press ENT.



Presetting FM Radio Stations Manually



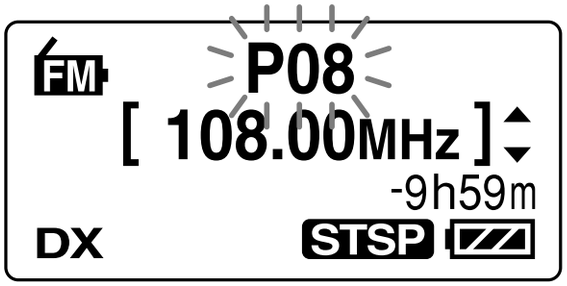
The display in the display window may be different from the actual one in some regions.
You can preset up to 30 FM radio stations in the IC recorder's memory.

1 Tune in the station you want to preset and store on the preset number.

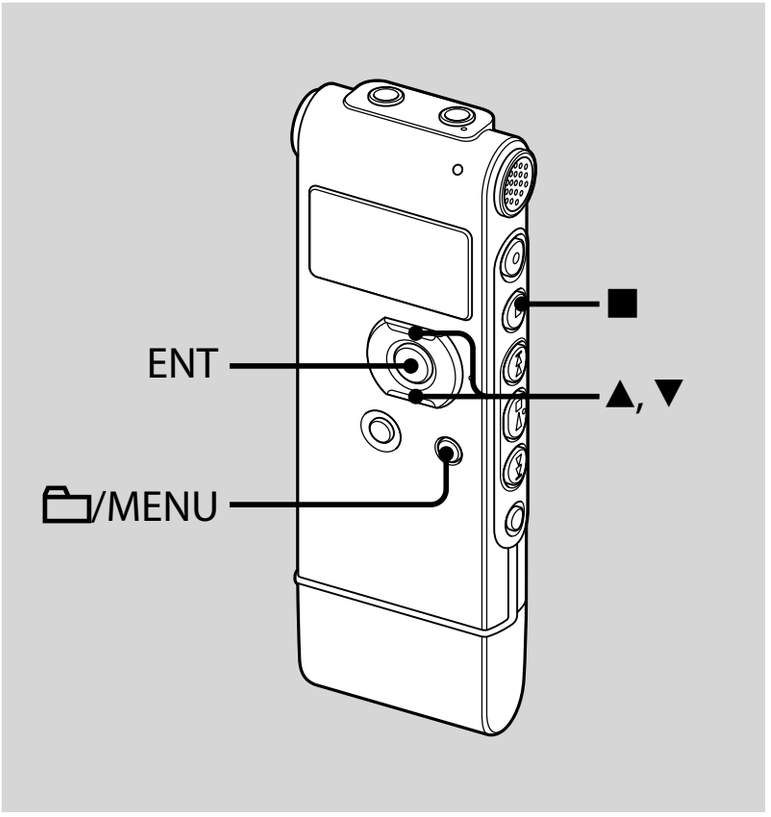
When a station you tune in is not a preset station, "P - -" is displayed.

2 Press and hold ENT until a preset number flashes on the display.

The station will be stored in memory.



Listening to a Preset Radio Station



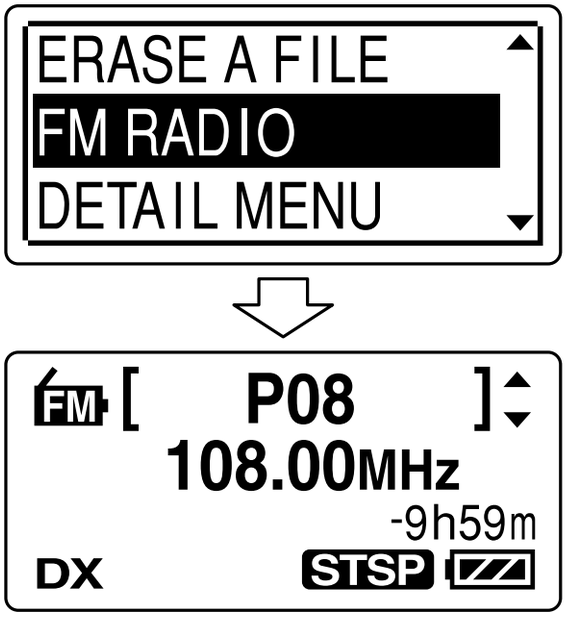
The display in the display window may be different from the actual one in some regions.

1 Press and hold 🗀/MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "FM RADIO," and then press ENT.

The IC recorder enters FM radio mode.

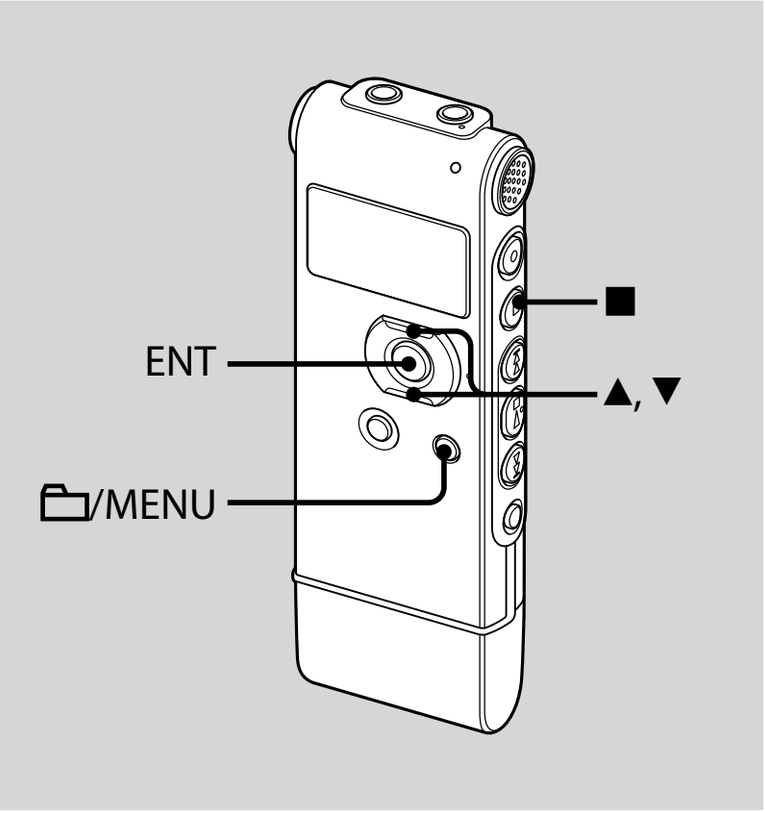


3 To tune in a station, press ▲ or ▼ on the control button repeatedly until the preset number you want is displayed.

When you press and hold ▲ or ▼ on the control button, the preset numbers change rapidly.

4 Press ■ (stop) to turn the FM radio off.

Erasing Preset FM Radio Stations



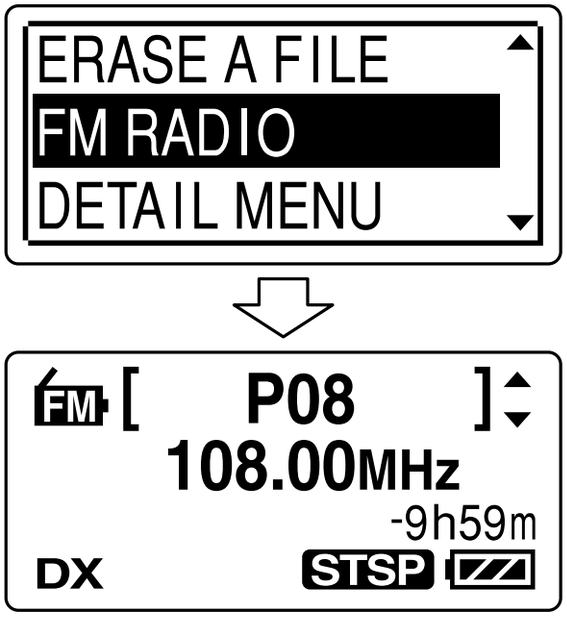
The display in the display window may be different from the actual one in some regions.

1 Press and hold /MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press ▲ or ▼ on the control button to select "FM RADIO," and then press ENT.

The IC recorder enters FM radio mode.



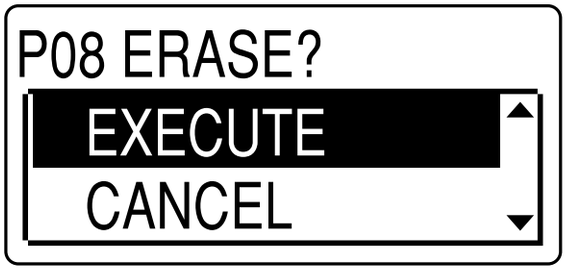
3 To tune in a station, press ▲ or ▼ on the control button repeatedly until the preset number you want to erase is displayed.

4 Press and hold ENT.

The preset number and "ERASE?" will be displayed on the display.

5 Press ▲ or ▼ on the control button repeatedly to select "EXECUTE," and then press ENT.

The preset number will be changed to "P- -."



Troubleshooting

Before taking the IC recorder for repair, check the following sections. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Symptom	Remedy
The IC recorder cannot be turned off.	• Slide the HOLD switch in the direction of the arrow when the IC recorder is stopped (page 18).
The IC recorder cannot be turned on.	• The HOLD switch is set. Slide the HOLD switch in the direction opposite that of the arrow (page 18).
Display does not disappear. Display appears blurred.	• Remove the protective film on the display window before you use the IC recorder.
The IC recorder does not operate.	• The battery has been inserted with incorrect polarity (page 12). • The battery is weak (page 13). • The buttons are locked with the HOLD switch (page 55).
No sound comes from the speaker.	• The volume is turned down completely (page 36). • Headphones are plugged in (page 37). • When you are listening to the FM radio, "AUDIO OUTPUT" is set to "HEADPHONES." Set it to "SPEAKER" (page 65).
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. • When you are listening to the FM radio, "AUDIO OUTPUT" is set to "SPEAKER." Set it to "HEADPHONES" (page 65).

Symptom	Remedy
The operation indicator does not light.	• "LED" is set to "OFF" (page 67). Display the menu and set "LED" to "ON."
"MEMORY FULL" is displayed and you cannot start recording.	• The memory is full. Erase some of the messages (page 49) or erase all the messages after you store them on your computer.
"FILE FULL" is displayed and you cannot operate the IC recorder.	• 99 messages have been recorded in the selected 🗀 folder or 495 messages (when there are 5 folders) in total have been recorded. Therefore you cannot record another message, or move a message. Erase some of the messages (page 49) or erase all the messages after you store them on your computer.
Recording is interrupted.	• The VOR function (page 26) is activated. Set "VOR" to "OFF" in the menu (page 61).
Noise is heard.	• An object, such as your finger, etc., accidentally rubbed or scratched the IC recorder during recording so that noise was recorded. • The IC recorder was placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback. • Plug of the connected microphone was dirty when recording. Clean the plug. • The 🎧 (headphones) plug is dirty. Clean the plug.
Recording level is low.	• "MIC SENSITIVITY" (microphone sensitivity) is set to "LOW (L)." Display the menu and set "MIC SENSITIVITY" to "HIGH (H)" (page 24).

Symptom	Remedy
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 equipment connected to the IC recorder.
Playback speed is too fast or too slow.	• The playback speed is adjusted in DPC. Slide the DPC (SPEED CTRL) switch to "OFF" or display the menu and adjust the speed in DPC again (pages 42, 61).
"--:--" is displayed.	• You have not set the clock (page 15).
"--y--m--d" or " --:--" is displayed on the REC DATE display.	• The date of recording will not be displayed if you recorded the message when the clock was not set.
There are fewer menu items displayed in the menu mode.	• The menu items displayed are different depending on the operation modes (stop mode, playback mode, and recording mode) (pages 58, 59).
The battery life is short.	• The battery life on pages 13 - 14 is based on playback with the volume level set to 24. The battery life may shorten depending on the operation of the IC recorder.
There is no battery power remaining after you have left the battery inserted for long time without using the IC recorder.	• Even if you do not use the IC recorder, the battery is consumed slightly. The battery life in this case varies depending on humidity or other environmental conditions. Usually, the battery lasts about four months. 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 (page 18) or remove the battery.

Symptom	Remedy
The audio is weak or has poor quality when listening to the radio.	• The battery is weak. Replace the battery with new one (page 12). • Move the unit away from the TV.
The picture of your TV becomes unstable.	• If you are listening to an FM program near the TV with an indoor antenna, move the IC recorder away from the TV.
You cannot receive FM radio stations, or a lot of static is heard.	• The headphones are not connected (the headphone cord is the FM antenna). • Connect the headphones to the 🎧 (headphone) jack and extend the headphone cord. • "DX/LOCAL" has been set to "LOCAL." Set it to "DX" (page 64).
You cannot preset an FM radio station.	• You have already preset 30 FM radio stations. Erase unwanted preset stations (page 91). • "SCAN SENSITIVITY" has been set to "LOW (SCAN L)." Set it to "HIGH (SCAN H)" (page 65).
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.
The IC recorder does not operate correctly.	• Take out the battery and insert it again (page 12).
The IC recorder does not operate.	• You may have formatted the memory of the IC recorder using the computer. Use the IC recorder formatting function to format the memory (page 66).

Symptom	Remedy
The IC recorder is not recognized by your computer. A folder/file cannot be transferred from your computer.	• Disconnect the IC recorder from your computer and reconnect it. • Do not use a USB hub or USB extension cable other than the supplied USB connection support cable. Connect the IC recorder directly to your computer or use the supplied USB connection support cable. • Operation is not guaranteed if you use any system requirements other than those described on page 68. • Depending on the USB connector position, the IC recorder may not be recognized. If this happens, try another connector.
The file transferred from your computer cannot be played back.	• The file format may differ from those that can be played back using the IC recorder (.mp3/.wma) (page 37). Check the file name.

Please note that recorded messages may be erased during service or repair work.

Error messages

Error message	Cause/Remedy
BATTERY LOWER-LEVEL	• You cannot format the memory or erase all the files in a folder because of insufficient battery power. Prepare a new battery to replace the current one.
LOW BATTERY	• Battery is exhausted. Replace the old battery with a new one.
MEMORY FULL	• The remaining memory capacity of the IC recorder is insufficient. Erase some messages before recording.
FILE FULL	• When there are already 99 messages in the selected folder or the total number of the file stored in the IC recorder becomes maximum, you cannot record a new message. Erase some messages before recording a message.
FILE DAMAGED	• You cannot play or edit messages, because the data of the selected file is damaged.
FORMAT ERROR	• The IC recorder cannot be turned on using the computer because there is no copy of the control file required for operation. Format the IC recorder using the formatting function in the menu.
PROCESS ERROR	• The IC recorder failed in memory access. Remove and then re-insert the battery. • Save a backup copy of your data and format the IC recorder using the menu.
SET DATE&TIME	• Set the clock; otherwise, you cannot set the alarm.
NO FILE	• The selected folder does not have any messages. You cannot move a message or set the alarm, etc., because of this.

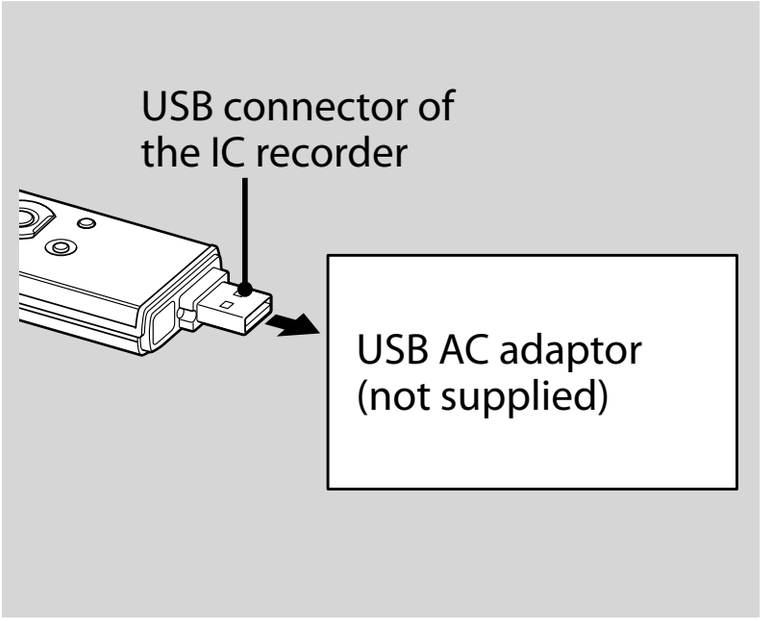
Error message	Cause/Remedy
PAST DATE/TIME	• You set the alarm when the time has already passed. Check it and set the appropriate date and time.
FILE PROTECTED	• The selected message is protected and is now a "Reading only" file. You cannot erase it. Cancel "Reading only" on your computer to edit the message using the IC recorder.
UNKNOWN DATA	• The data does not have a file format which the IC recorder supports.
CANNOT OPERATE	• You cannot move a message or divide a message, because there is more than one folder that has files with same name. Change the file names. • A message in the folder cannot be moved or divided. • You cannot divide messages not recorded using the IC recorder.
NEW MESSAGE	• The maximum recording message/music file size is 1 GB. When the recording message/music file size exceeds the maximum size limit, exceeded recording is recorded as a new message.
CHANGE FOLDER	• If there are no MP3 files in the folder, no folders are displayed in the display window, therefore, the folder setting will be changed.
FULL SETTING	• When 30 FM stations have already been stored in the IC recorder's memory, you cannot preset a new FM station.
SYSTEM ERROR	• A system error other than the above has occurred. Remove the battery and re-insert it.

System limitations

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

Symptom	Cause/Remedy
You cannot record messages up to the maximum recording time.	• If you record messages in a mixture of ST, STSP, STLP, SP and LP modes, the recordable time varies from the maximum ST mode recording time to the maximum LP mode recording time. • The sum of the number on the counter (elapsed recording time) and the remaining recording time may be less than the IC recorder's maximum recording time.
You cannot display music files in order.	• If you have transferred music files using your computer, those files may not be copied in order of transfer because of the System limitation.
A message/music file is automatically divided.	• The message/music file has reached the maximum size limit (1 GB), therefore it is automatically divided.
You cannot enter lower-case characters.	• Depending on the combination of the characters used for the folder name that was made on your computer, those characters may change to all capitals.
"□" is displayed in place of a folder name, title, artist name, or file name.	• A character which cannot be displayed on the IC recorder has been used. Using your computer, replace it with one which can be displayed on the IC recorder.
You cannot specify the finishing point B.	• You cannot specify the finishing point B before the starting point A that has been set.
When you set A-B Repeat playback, the set positions move a little.	• Depending on the files transferred to the IC recorder from your computer, the set positions may move.

Using a USB AC Adaptor (not supplied)



You can connect the IC recorder to an AC outlet using a USB AC adaptor AC-U50A/AC-U50AD (not supplied).

Note

Your dealer may not handle some of the optional accessories. Please ask the dealer for detailed information.

1 Remove the USB cap from the IC recorder and connect the IC recorder to a USB AC adaptor (not supplied) .

2 Connect the USB AC adaptor to an AC outlet.

Disconnecting the IC recorder from the AC outlet

Follow the procedures below; otherwise, data may be damaged.

1 If you are recording or playing back a message, press ■ (stop) to put the IC recorder into the stop mode.

2 Make sure that the operation indicator is not flashing.

3 Disconnect the USB AC adaptor from the AC outlet, and then disconnect the IC recorder from the USB AC adaptor.

Notes

- During recording (the operation indicator lights or flashes in red) or accessing data (the operation indicator flashes in orange),
  - the IC recorder should not be connected to or disconnected from the USB AC adaptor connected to the AC outlet.
  - the USB AC adaptor connected to the IC recorder should not be connected to or disconnected from the AC outlet.

  Doing so may damage the data. If the IC recorder is required to process a large amount of data, the start-up window may be displayed for an extended period of time. This is not a malfunction of the IC recorder. Wait until the start-up display disappears from the display window.
- While a USB AC adaptor (not supplied) is being used, the remaining battery/charging indicator does not appear in the display window.

Precautions

On power

- Operate the unit only on 1.5 V or 1.2 V DC. Use one LR03 (size AAA) alkaline battery or one NH-AAA rechargeable battery.

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 battery and have the unit checked by qualified personnel before operating it any further.

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. 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

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 messages on a tape recorder or to a computer, etc.

Specifications

IC recorder section

Capacity (User available capacity)

ICD-UX71/UX71F:
1 GB (approx. 986 MB =1,034,354,688 Byte)
ICD-UX81/UX81F:
2 GB (approx. 1.92 GB =2,072,313,856 Byte)
ICD-UX91:
4 GB (approx. 3.86 GB=4,147,806,208 Byte)
A part of the memory capacity is used as a management area.

Recording time*1

See page 23.

*1 When you are going to record continuously for a long time, you may have to replace the battery with a new one in the midst of recording. For details on the battery life, refer to pages 13 - 14 .

Frequency range

- ST : 40 Hz - 20,000 Hz
- STSP : 40 Hz - 15,000 Hz
- STLP : 60 Hz - 7,500 Hz
- SP : 60 Hz - 10,000 Hz
- LP : 60 Hz - 3,400 Hz

Bit rates and sampling frequencies for MP3 files*2

Bit rate: 32 - 320 kbps, VBR
Sampling frequencies: 16/22.05/24/32/44.1/48 kHz

*2 The playback of MP3 files recorded using the IC recorder is also supported.
Not all encoders are supported.

Bit rate and sampling frequencies*3 for WMA files

Bit rate: 32 - 192 kbps*4, VBR
Sampling frequencies: 44.1 kHz

*3 WMA Ver. 8 Class2A is compatible, however, MBR (Multi Bit Rate), Lossless, Professional, and Voice are not supported.

*4 The NoiseSubstitution function is not supported, therefore, playback becomes simple playback with 32 kbps bit rate.

FM radio section

Frequency range

87.5 - 108 MHz
IF 150 kHz

Antenna

Headphone cord antenna

General

Speaker

Approx. 10 mm (13/32 in.) dia.

Power output

90 mW

Input/Output

- Microphone jack (minijack, stereo)
  – input for plug in power, minimum input level 0.9 mV, 3 kilohms or lower impedance microphone
- Headphone jack (minijack, stereo)
  – output for 8 - 300 ohms headphones
- USB connector
  – High-Speed USB compatible

Playback speed control (DPC)

+100% to –50% (MP3)
0% to –50% (WMA)

Power requirements

One LR03 (size AAA) alkaline battery (supplied): 1.5 V DC
One NH-AAA rechargeable battery (not supplied): 1.2 V DC

Operating temperature

5˚C - 35˚C (41˚F - 95˚F)

Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)*5

34.4 × 99.0 × 13.4 mm (1 3/8 × 4 × 17/32 in.)

Mass (JEITA)*5

Approx. 46 g (1 5/8 oz) including LR03 (size AAA) alkaline battery

*5 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

Supplied accessories

See page 6.

Optional accessories

Active speaker SRS-T88 (U.S.A. and Canada only), SRS-T80
Electret condenser microphone ECM-CS10, ECM-CZ10, ECM-DS70P, ECM-DS30P, ECM-TL1
Audio connecting cable RK-G136, RK-G139 (excluding Europe)
Rechargeable battery NH-AAA-B2K (U.S.A. and Canada only), NH-AAA-B2F
USB AC adaptor AC-U50AD (U.S.A. and Canada only), AC-U50A
Battery charger BCG- 34HE4

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

Design and specifications are subject to change without notice.

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