



IC Recorder

Operating Instructions

Owner's Record

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

Model No. ICD-P110/P210 Serial No. _____

IC RECORDER

ICD-P110/P210

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eco info Printed on 100% recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.

<http://www.sony.net/>

Information

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

For the customers in the U.S.A.

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 Services Center 1-800-222-7669 or <http://www.sony.com/>

Declaration of Conformity

Trade Name: SONY
 Model: ICD-P110/P210
 Responsible Party: Sony Electronics Inc.
 Address: 16450 W. Bernardo Dr, San Diego, CA 92127 U.S.A.
 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.

Precautions

On power

- Operate the unit only on 3 V DC. Use two LR03 (size AAA) alkaline batteries.

On safety

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

On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.

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, benzene or thinner.

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

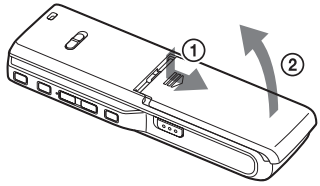
Backup recommendations

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.

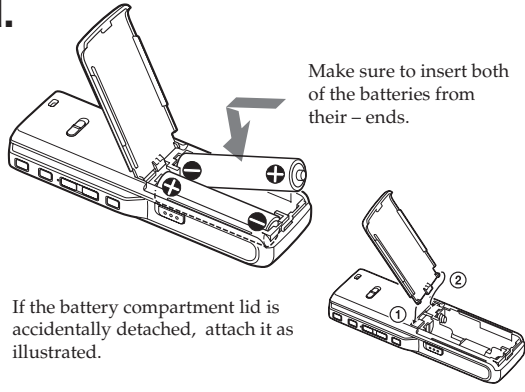
▶Getting started

Step 1: Installing the Batteries

1 Slide and lift the battery compartment lid.



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



Make sure to insert both of the batteries from their - ends.

If the battery compartment lid is accidentally detached, attach it as illustrated.

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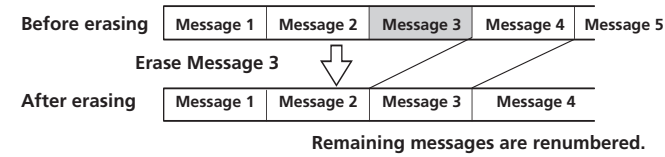
Make sure to insert both of the batteries from their - ends.

Erasing Messages

You can erase the recorded messages one by one or all messages in a folder at a time. Note that once a recording has been erased, you cannot retrieve it.

Erasing messages one by one

When a message is erased, the remaining messages will advance and renumbered so that there will be no space between messages.



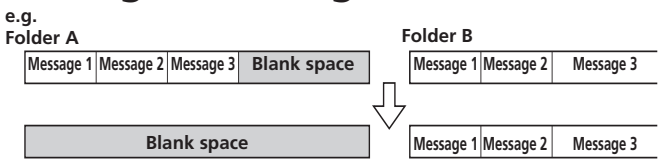
- Press **ERASE** while playing back the message you want to erase or press **ERASE** for more than 1 second during stop mode. A beep will sound and the message number and "ERASE" will flash while the first and last 5 seconds of the message is played back 10 times.
- Press **ERASE** while the message is being played back. The message is erased and the remaining messages will be renumbered. (For example, if you erase Message 3, Message 4 will be renumbered as Message 3. When erasing is completed, the unit will stop at the beginning of the following message.)

To cancel erasing
Press **STOP** before step ②.

To erase other messages
Repeat steps ① and ②.

To erase a message partially
First divide the message and then follow the steps to erase the message.

Erasing all messages in a folder

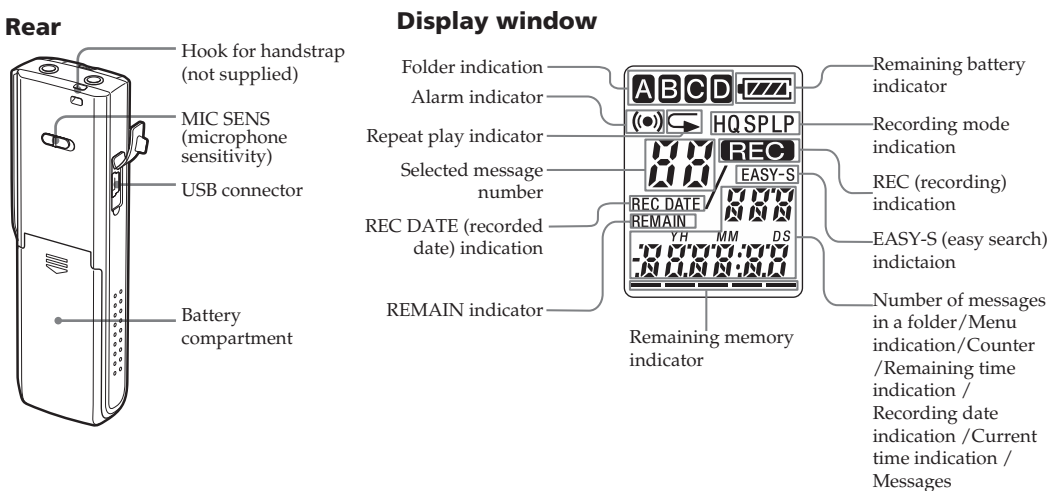
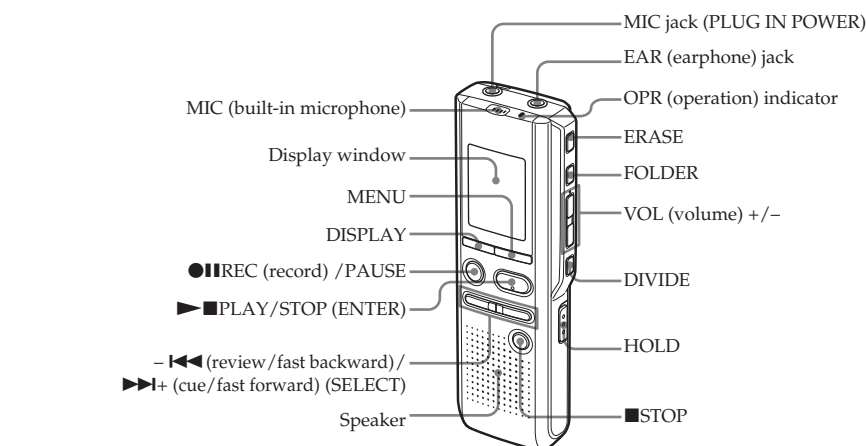


- Press **FOLDER** to select the folder you want to erase.
- While pressing **STOP**, press **ERASE** for more than 1 second. "ALL ERASE" will flash for 10 seconds.
- While the display is flashing, press **ERASE**.

To cancel erasing
Press **STOP** before step ③.

Index to Parts and Controls

Main unit



Various Ways of Recording

Adding a Recording

Using an Adding Recording

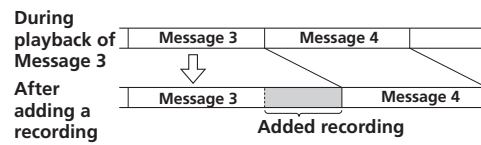
At a factory setting, you cannot add a recording not to erase the message by accidental operation. If you want to add a recording to a previously recorded message or add an overwrite recording, change the REC-OP setting in the procedures below.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "REC-OP" and press **PLAY/STOP**. The adding recording window will be displayed.
- Press **LEFT** or **RIGHT** to select "ON" and press **PLAY/STOP**. The setting is changed.
- Press **LEFT** or **RIGHT** to select "ADD" or "OVER" and press **PLAY/STOP**.
 - ADD: adds a recording to a previously recorded message
 - OVER: adds an overwrite recording.
- Press **MENU** to exit the menu mode.

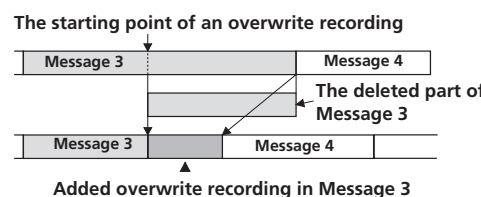
To prohibit to add a recording
In step 3, select "OFF" and press **PLAY/STOP**.

Adding a Recording to a Previously Recorded Message

You can add a recording to the message being played back. When "ADD" is selected in the menu The added recording will be placed after the current message and counted as a part of the message.



When "OVER" is selected in the menu
You can add an overwrite recording after the selected point in a recorded message. The part of the message after the selected point is deleted.



- During playback, press **IREC/PAUSE** briefly. The "REC" indication appears. "ADD" or "OVER" will flash and the unit stops in the recording pause mode.
- While the "ADD" or "OVER" flashes, press **IREC/PAUSE** again. The OPR indicator will turn red. An add or overwrite recording starts.
- Press **STOP** to stop the recording.

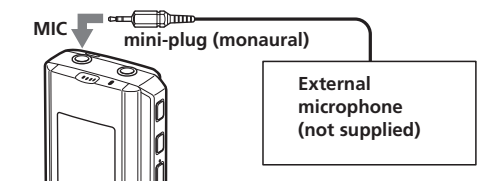
Notes

- You cannot add or overwrite a recording if the remaining memory is not long enough.
- The added or overwritten portion of a message will be recorded in the same recording mode (HQ, SP, or LP).

Recording with an External Microphone or from Other Equipment

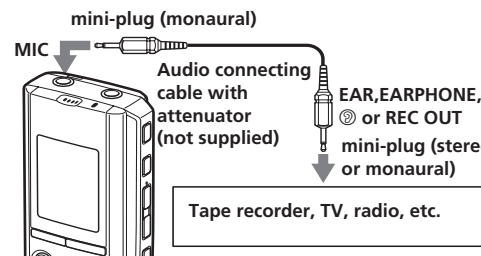
- Connect a plug-in-power type microphone or other equipment to the MIC (PLUG IN POWER) jack.

When recording with an external microphone



When you connect an external microphone, the built-in microphone is automatically cut off. When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

When recording from other equipment



- Follow the steps in "Recording messages" to record messages.
- Notes**
- Make sure that the plugs are connected securely.
 - We recommend you make a trial recording to check the connections and volume control.
 - When connecting equipment other than Sony's, refer to the instruction manual of the equipment.

Starting recording automatically in response to the sound — Advanced VOR function

VOR ON: The VOR (Voice Operated Recording) function is activated. Recording starts when the unit detects sound and stops when no sound is heard, eliminating recording from soundless period.

VOR OFF: The VOR function is disabled. Normal recording operation is selected.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "VOR" and press **PLAY/STOP**. "OFF (or ON)" will flash.
- Press **LEFT** or **RIGHT** to select "ON" or "OFF" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode.

Other Functions

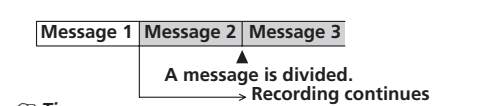
Dividing a Message

You can divide a message during recording or playback, so that the message is divided into two and the new message number is added to the divided message. By dividing a message, you can easily find the point you want to play back when you make a long recording such as a meeting.

You can divide messages until the total number of messages in the folder becomes 99.

While recording or playing back a message, press DIVIDE at the point you want to divide.

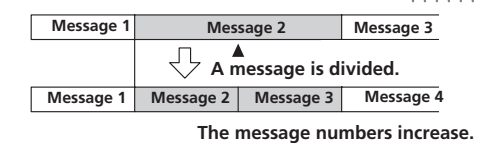
- When you press **DIVIDE** during recording: The new message number is added at the point you pressed the button, and the new message number and "DIVIDE" flashes for 3 seconds. The message will be divided into two; however, the messages will be recorded without a break.



Tip

You can divide a message during recording pause.

- When you press **DIVIDE** during playback: The message is divided into two at the point you pressed the button, and the new message number and "DIVIDE" flashes for 3 seconds. The message numbers of the following messages will increase by one.



To play the divided message

Press **LEFT** or **RIGHT** to display the message number as the divided messages each have message numbers.

To play the divided messages continuously
Select ON for CONT in the menu as described in "Playing Back All Messages in a Folder Continuously".

Notes

- If 99 messages have been recorded in a folder, you cannot divide a message. In that case, reduce the number of messages to 98 or less by erasing unnecessary messages or by moving some of the messages to another folder before dividing a message.
- If you divide a message with an alarm setting, the alarm setting remains only with the former message divided.
- You cannot divide a message in the first or the last 1 second.
- If you divide a message frequently, the unit may become unable to divide a message.
- Once a message is divided, you cannot combine the divided messages with the IC recorder. To combine messages, use the supplied application software.

Moving Messages to a Different Folder — Move Function

You can move the recorded messages to another folder.

Example: Moving Message 3 in Folder A to Folder B

- Play back the message you want to move.
- While playing back the message, press **FOLDER** to flash the indication of the folder to which you want to move the message (B in this case). The first and last 5 seconds of the message will be played back 10 times, while the folder indication and "MOVE" flash.
- Press **PLAY/STOP**. The message is moved in the destination folder. Messages are sorted in order of the recorded date and time.

To cancel moving the message(s)
Press **STOP** before step 3.

Notes

The move function does not duplicate a message in another folder. When you move a message to another folder, the one in the previous folder will be deleted.

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.

- Use **FOLDER** and **LEFT/RIGHT** to select the folder and the message you want to play back.
- Enter the alarm setting mode.
 - Press **MENU**. The unit enters the menu mode and "ALARM OFF" will be displayed. (If "ALARM ON" is displayed, the alarm has been set. If you do not wish to change the setting, press **MENU** and exit the menu mode.)
 - Press **PLAY/STOP**. "OFF" starts to flash.
 - Press **LEFT** or **RIGHT** to select "ON". "DATE" will flash in the display window.
 - Press **PLAY/STOP**. "DATE" will flash in the display window.

- Set the alarm date.
 - Press **PLAY/STOP** while "DATE" is flashing. The year digits will flash.
 - Press **LEFT** or **RIGHT** to select the year digits and press **PLAY/STOP**. The month digits will flash.
 - Press **LEFT** or **RIGHT** to select the month and day in sequences.

- Set the alarm time.
 - Press **PLAY/STOP** while "DATE" is flashing. The day of the week.
 - Press **LEFT** or **RIGHT** to select the day of the week.

- Press **PLAY/STOP**. The hour digits will flash.
- Press **LEFT** or **RIGHT** to select the hour digits and press **PLAY/STOP**. The minute digits will flash.
- Press **LEFT** or **RIGHT** to select the minute digits and press **PLAY/STOP**.

- Press **PLAY/STOP**. The minute digits will flash.
- Press **LEFT** or **RIGHT** to select the minute digits and press **PLAY/STOP**.
- Press **PLAY/STOP**. The hour digits will flash.
- Press **LEFT** or **RIGHT** to select the hour digits and press **PLAY/STOP**. The minute digits will flash.
- Press **LEFT** or **RIGHT** to select the minute digits and press **PLAY/STOP**.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "EASY-S" and press **PLAY/STOP**. "OFF (or ON)" will flash.
- Press **LEFT** or **RIGHT** to select "ON" or "OFF" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode. The "EASY-S" indication is displayed.

"(*)" is displayed when the number of the message with alarm setting is selected. At the set time, the alarm will sound for about 10 seconds and the selected message will be played back. (If you have selected "B-ONLY", only the alarm will sound.) During playback, "ALARM" will flash in the display window. When the playback ends, the unit will stop automatically at the beginning of that message.

To listen to the same message again
Press **PLAY/STOP**. The same message will be played back from the beginning.

To cancel the alarm setting before the playback starts
Press **STOP** while the alarm sound is heard. You can stop even when the HOLD function is activated.

Notes

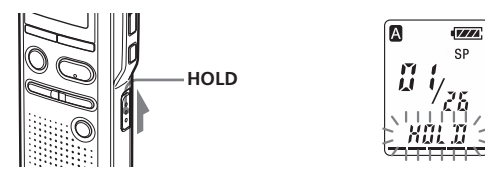
- You cannot set the alarm if you have not set the clock or there is no message in the selected folder (the unit will not enter the alarm setting mode when you press **MENU** in Step 2).
- If you try to set the alarm to play back a message at a previously set time on another message, "PRE SET" will be displayed, preventing new settings.
- If the alarm time comes while another message is being played back with an alarm, the playback stops and the new message will be played back.
- If the alarm time comes during recording, alarm will sound for 10 seconds after the recording is finished and playback begins. "W" will flash when the alarm time comes.
- If more than one alarm time comes during recording, only the first message will be played back.
- When the alarm time comes when the unit is in the menu mode, alarm will sound and the menu mode will be cancelled.
- If you erase the message you set the alarm to play back, the alarm setting will be cancelled.
- If you divide a message with the playback alarm, playback will stop at the point you divided a message.
- You can adjust the playback volume with **VOL +/-**.
- If the alarm time comes during erasing, alarm will sound for 10 seconds after the erasing is finished and playback begins.
- Alarm setting will not be cancelled when the alarm playback finishes. To cancel alarm setting, see below.

To cancel the alarm setting or change the alarm time

- Select the message you set the alarm to play back, and press **MENU**. "ALARM ON" will be displayed.
- Press **PLAY/STOP** to flash "ON".
- To cancel the alarm setting: Press **LEFT** or **RIGHT** to flash "OFF" and press **PLAY/STOP**. To change the alarm date and time: Press **PLAY/STOP**. When the alarm date is displayed, follow the steps 3 to 6 above to change the alarm date and time.
- Press **MENU** to exit the menu mode.

Preventing Accidental Operation — HOLD function

Slide the HOLD switch in the direction of the arrow. "HOLD" will flash three times, indicating that all the functions of the buttons are locked.



When the HOLD function is activated during stop, all the display will be turned off after "HOLD" flashes three times.

To cancel the HOLD function
Slide the HOLD switch in the opposite direction 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**.

Locating quickly the point you wish to start playback (Easy Search)

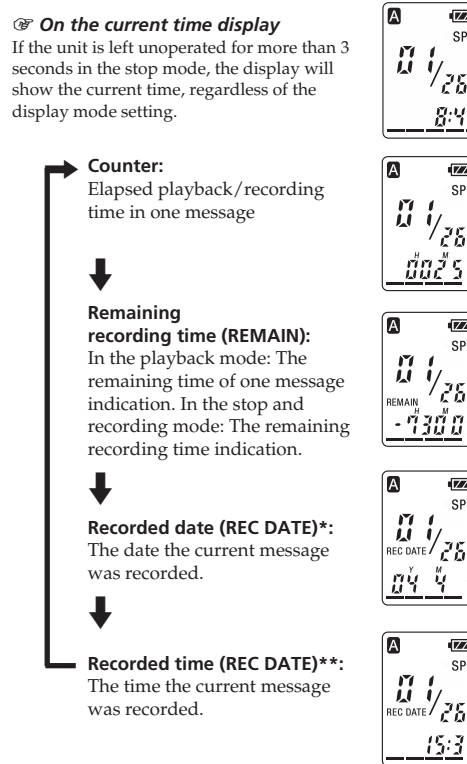
EASY-S ON: You can quickly locate the point you wish to start playback by pressing **LEFT** or **RIGHT** during playback or playback pause.

EASY-S OFF: You can locate the previous or next message by pressing **LEFT** or **RIGHT** during playback or playback pause.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "EASY-S" and press **PLAY/STOP**. "OFF (or ON)" will flash.
- Press **LEFT** or **RIGHT** to select "ON" or "OFF" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode. The "EASY-S" indication is displayed.

Selecting the Display Mode

You can select the display mode for the stop, recording and playback modes. Each time you press **DISPLAY**, the display mode will change as shown below:



* If the clock has not been set, "--Y-M-D" will be displayed.
** If the clock has not been set, "--:" will be displayed.

To turn off the display
This unit does not have a power on/off switch. The display is shown at all times, which will not almost influence the battery life. To turn off the display, slide the HOLD switch in the direction of the arrow in the stop mode. "HOLD" will flash for three times and then the display turns off in the window. To turn on the display, slide the HOLD switch in the opposite direction.

Turning off the Beep Sound

BEEP ON: A beep will sound to indicate that operation has been accepted.

BEEP OFF: No beep sound will be heard except for the alarm and timer.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "BEEP ON (or OFF)" and press **PLAY/STOP**. "ON (or OFF)" will flash.
- Press **LEFT** or **RIGHT** to select "ON" or "OFF" and press **PLAY/STOP**. The setting is completed.
- Press **MENU** to exit the menu mode.

Changing the Recording Mode

HQ: You can record with the high quality sound (monaural sound).

SP: You can record with better sound (monaural sound).

LP: You can record for longer time (monaural sound).

Frequency range
HQ: 250 Hz - 6,800 Hz
SP/LP: 220 Hz - 3,400 Hz
Speaker: approx. 2.0 cm (1 3/16 in.) dia.
Power output: 250 mW
Input/Output: Earphone jack (minijack) for 8 - 300 ohms ear receiver/headphones
 Microphone jack (minijack, monaural)
 Plug in power
 Minimum input level 0.6 mV
 3 kilohms or lower impedance microphone
 USB connector

- Press **MENU** to enter the menu mode.
- Make sure that "MODE" is displayed and press **PLAY/STOP**. "SP (or HQ, LP)" will flash.
- Press **LEFT** or **RIGHT** to select "HQ", "SP" or "LP" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode. The setting becomes effective and the normal screen will be displayed. If the unit is left unoperated for more than 3 seconds, the display will show the current time and the selected recording mode will be displayed.

Playing Back All Messages in a Folder Continuously

CONT ON: You can play back all messages in a folder continuously.

CONT OFF: Playback stops at the end of each message.

- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "CONT" and press **PLAY/STOP**. "OFF (or ON)" will flash.
- Press **LEFT** or **RIGHT** to select "ON" or "OFF" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode.

Turning off the OPR Indicator (LED)

During recording and playback, the OPR (operation) indicator lights or flashes. You can set the OPR indicator to turn off even in operation.

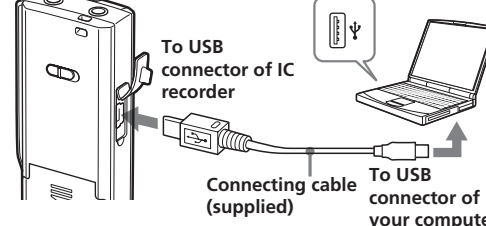
- Press **MENU** to enter the menu mode.
- Press **LEFT** or **RIGHT** to display "LED" and press **PLAY/STOP**. "ON (or OFF)" will flash.
- Press **LEFT** or **RIGHT** to select "OFF" and press **PLAY/STOP**. Now the setting is completed.
- Press **MENU** to exit the menu mode.

Using the "Digital Voice Editor" Software

By connecting the IC recorder to your computer with the supplied USB cable, you can use the "Digital Voice Editor" software to do the following:

- Saving the IC recorder messages on your computer's hard disk.
- Transferring the PC messages back to the IC recorder.
- Playing or editing the messages on your computer.
- Sending a voice e-mail message using MAPI e-mail software.

For the details, see the supplied "Digital Voice Editor 2" software operating instructions.



Specifications

Recording media: Built-in flash memory 16MB (ICD-P110)/32MB (ICD-P210), Monaural recording

Recording time
ICD-P110:
HQ: 1 hour 40 minutes
SP: 4 hours 35 minutes
LP: 7 hours 35 minutes
ICD-P210:
HQ: 3 hours 35 minutes
SP: 9 hours 40 minutes
LP: 15 hours 45 minutes

Frequency range
HQ: 250 Hz - 6,800 Hz
SP/LP: 220 Hz - 3,400 Hz
Speaker: approx. 2.0 cm (1 3/16 in.) dia.
Power output: 250 mW
Input/Output: Earphone jack (minijack) for 8 - 300 ohms ear receiver/headphones
 Microphone jack (minijack, monaural)
 Plug in power
 Minimum input level 0.6 mV
 3 kilohms or lower impedance microphone
 USB connector

Power requirements
 Two LR03 (size AAA) alkaline batteries: 3 V DC
 Dimensions (w/h/d) (not incl. projecting parts and controls)
 30.0 x 103.5 x 16.0 mm (1 3/16 x 4 1/8 x 21/32 in.)
Mass (incl. batteries)
 60 g (2.1 oz)
Supplied accessories
 Operating instructions (For the IC recorder (1)/ For the application software (1)/LR03 (size AAA) alkaline batteries (2) (For the U.S.A. and U.K. only)/USB connecting cable (1)
 Application software (CD-ROM) (1)
Optional accessories
 Electret Condenser Microphone ECM-C10, ECM-DM5P, ECM-Z60, ECM-TL1 (for telephone recording)
 Audio connecting cable RK-G64HG / RK-G69HG (excluding Europe)
 Active speaker SRS-T88, SRS-T80

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.