

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-MX20 Serial No. _____



ICD-MX20

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http://www.sony.net/

For the customers in the USA

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.

For "Memory Stick"
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.

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-MX20
Responsible Party: Sony Electronics Inc.
Address: 16450 W. Bernardo Dr., San Diego, CA 92128 USA
Telephone Number: 858-442-2330
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.

Notice for users

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The software described herein may also be governed by the terms of a separate user license agreement.

- This software is for Windows and cannot be used for Macintosh.
- The supplied connecting cable is for the IC Recorders ICD-MX20. You cannot connect other IC Recorders.

Information
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- The "Digital Voice Editor" uses software modules as shown below.
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Getting started

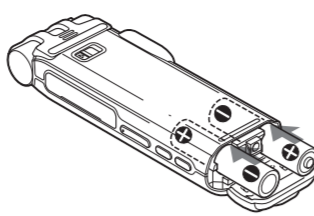
Step 1: Installing the Batteries

1 Slide and open the battery compartment lid.

2 Insert two LR03 (size AAA) alkaline batteries with correct polarity, and close the lid. Make sure to insert batteries into the unit from the - end first.

When you insert batteries for the first time, or when you insert batteries after the unit has been without batteries for a certain period of time, "Set Date&Time" appears. Please refer "Step 2. Setting the Clock" to set the date and time.

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



- Notes on batteries**
- Do not use manganese batteries for this unit.
 - Do not charge dry batteries.
 - When you are not going to use the unit for an extended period of time, remove the batteries to prevent damage from battery leakage and corrosion.

When you insert the batteries for the first time after purchasing (initializing the memory)
"ACCESS" appears in the display window and the internal memory is initialized automatically to create 5 folders (FOLDER01 to FOLDER05).

- Notes while "ACCESS" appears**
- The unit is accessing data while "ACCESS" appears in the display window or the OPR indicator lights or flashes in red or orange. While accessing, do not remove the batteries or AC adaptor (not supplied). Doing so may damage the data.
 - If the unit is required to process excessive amount of data, "ACCESS" may be displayed for an extended period of time. This is not a malfunction of the unit. Wait until the message disappears.

Replacing the batteries

The battery indicator on the display window shows the battery condition:
 : Replace both of the two batteries with new ones.

: "Replace Batteries" appears and the unit will stop operation.

Battery life* (Using Sony alkaline batteries LR03 (SG))

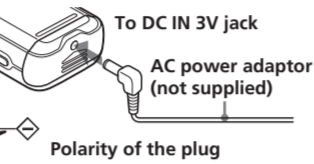
Recording mode:	ST	STLP	SP	LP
In recording:	8 hr.	9 hr. 30 min.	9 hr. 30 min.	10 hr. 30 min.
In playback:	8 hr.	9 hr.	9 hr.	9 hr.

(hr.: hours/min.: minutes)

- * In continuous recording/playback in approximate hours and minutes
- * When playing back through the internal speaker with the medium volume level
- * The battery life may shorten depending on the operation of the unit.

Using on house current

Connect the AC power adaptor (not supplied) to the DC IN 3V jack of the unit and to the wall outlet. Do not use any other AC power adaptor.



Step 2: Setting the Clock

You need to set the clock to use the alarm function or record the date and time. When you insert batteries for the first time, or when you insert batteries after the unit has been without batteries for a certain period of time, "Set Date&Time" appears. Set the date and time as follows:

- In continuous recording/playback in approximate hours and minutes
- When playing back through the internal speaker with the medium volume level
- The battery life may shorten depending on the operation of the unit.

To display the clock setting window and current time

You can display the clock setting window to set the date and time or check the current time:

- 1 Press **◀** (MENU) to display the menu.

: Press **▲** to select (Preferences) and then press **▶**.

: Press **▲** to select "Date&Time". The current time is displayed in the right bottom of display window.

: Press **▶** to display the "Date&Time" window and then set the clock.

: To set the clock, press **▶** to increase the number ▲ to decrease the number ▼ to increase the number

: Repeat steps 1 and 2 to set the month, day, hour, and then minutes in sequence. To select a previous or next item Press **◀** for the previous item or **▶** for the next item.

Tip
This unit does not have a power on/off function. The display is shown at all times.

2 Press **▲ to select the digits for the year.** ▲ to increase the number ▼ to decrease the number

3 Press **▶.** The month digits will flash.

4 To set the clock, press **▶ to display the "Date&Time" window and then set the clock.**

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▶ Various Ways of Recording

Adding a Recording to a Previously Recorded Message

You can add a recording to the message being played back.

Notes

- At a factory setting, you cannot add a recording not to erase the message by accidental operation. To add or overwrite a recording, set the "Add/Over" in the menu to "Add REC" or "Overwrite".
- The added or overwritten portion of a message will be recorded in the same recording mode (ST, STLP, SP or LP) as the original message, regardless of the current recording mode setting.
- You cannot add or overwrite a recording if the remaining memory is not long enough. For more information, see "Troubleshooting".

When "Add REC" is selected in the menu

The added recording will be placed after the current message and counted as a part of the message.

During playback of Message 3

Message 3 Message 4

After adding a recording

Message 3 Message 4

When "Overwrite" is selected in the menu

You can add or overwrite recording after the selected point in a recorded message. The part of the message after the selected point is deleted.

The starting point of an overwrite recording

Message 3 Message 4

The deleted part of Message 3

Message 3 Message 4

Added overwrite recording in Message 3

1 During playback, press **REPEAT/PAUSE** briefly.

The "Add REC" or "Overwrite" will appear and the unit stops in the recording stand-by mode.

2 While the "Add REC" or "Overwrite" appears, press **REPEAT/PAUSE** again.

The OPR indicator will turn in red. An add or overwrite recording starts.

3 Press **STOP** to stop the recording.

Recording with an External Microphone or Other Equipment

Recording with an external microphone

Connect an external microphone to the ϕ (microphone) jack.

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.

External Stereo microphone (not supplied)

mini-plug (stereo)

To the ϕ (microphone) jack

Recommended types of microphones

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

Recording from other equipment

To record the sound of other equipment with the IC recorder, connect the ϕ (microphone) jack of the IC recorder to the earphone jack of other equipment (tape recorder etc.) by using a resistance audio connecting cable.

Before you start recording, set the microphone sensitivity by setting the "Mic Sense" in the menu to "High".

Note

If you use an audio connecting cable without a resistor, sound may be recorded interrupted. Make sure to use a resistance audio connecting cable.

Recording with other equipment

To record the sound of the IC recorder with other equipment, connect the ϕ (headphones) jack of the IC recorder to the audio or line input connector (stereo mini-plug) of other equipment.

To the audio or line input connector (stereo mini-plug)

Audio connecting cable with attenuator (not supplied)

To the ϕ (headphones) jack

Tape recorder, etc.

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.

▶ Various Ways of Playback

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

You can quickly locate the point you wish to start playback by pressing **SEARCH** repeatedly.

The starting point (A) of the section you wish to play repeatedly is set. "A-B Repeat" appears.

The finishing point (B) of the section is set. "A-B Repeat" is displayed and the specified section is played back repeatedly.

To resume normal playback

Set "Play Mode" in the menu to "Repeat" and press **REPEAT**.

The "A-B Repeat" and "Repeat MSG" will be displayed and the selected message will be played back repeatedly.

To resume normal playback

Set "Play Mode" in the menu to "the MSG" or "Cont Play".

Playing back a specified section repeatedly — A-B Repeat

While playing back a message, you can set the start (A) and end (B) points for a section you wish to play repeatedly.

1 During playback, press **A-B** (repeat) briefly.

The starting point (A) of the section you wish to play repeatedly is set. "A-B Repeat" appears.

2 During playback, press **A-B** (repeat) briefly again.

The finishing point (B) of the section is set. "A-B Repeat" is displayed and the specified section is played back repeatedly.

To resume normal playback

Press **STOP**.

To stop A-B Repeat playback

Press **STOP**.

Notes

- You cannot set A-B Repeat for a section that overlaps two or more messages.
- If you do not set the finishing point (B), the finishing point is automatically set at the end (or the beginning) of the message.

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 at a specified date, once every week, or the same time everyday.

You can also sound the alarm without playing back a message.

Note

When the clock is not set or no messages are recorded, you cannot set the alarm.

1 Display the message you want to set the alarm.

005/045

0:00:00

05y10m15d 13:26

Alarm OFF

Priority

Move MSG

Alarm

OFF

2 Enter the alarm setting mode.

Press \leftarrow (MENU), and select **(Edit)** by pressing Δ/∇ , and then press **REPEAT**.

Press Δ/∇ to select "Alarm" and press **REPEAT**.

The alarm setting mode will be displayed.

Press Δ/∇ to select "ON" and press **REPEAT**.

If "ON" has already been selected, follow the next step.

Press **REPEAT**.

The window to set the alarm date will be displayed.

Press Δ/∇ to select "DATE" is selected.

The year digits will be selected.

Press Δ or ∇ to select the year digits and press **REPEAT**.

The month digits will be selected.

Press Δ or ∇ to select the month and day in sequences.

Set the alarm date.

To play back on a desired date

Press Δ/∇ while "DATE" is selected.

The year digits will be selected.

Press Δ or ∇ to select the year digits and press **REPEAT**.

The month digits will be selected.

Press Δ or ∇ to select the month and day of the week, and press **REPEAT**.

To play back at the same time every day

Press Δ/∇ to select "DAILY", and press **REPEAT**.

The minute digits will flash.

Press Δ or ∇ to select the minute digits and press **REPEAT**.

The alarm setting is completed.

5 Select the alarm playback.

Press Δ/∇ to select the alarm sound either from "Beep&Play" (for starting playback after the alarm) or "Beep" (for only the alarm).

Press **REPEAT**.

The alarm setting is completed.

6 Press **STOP** to exit the menu mode.

"M" is displayed when the message having an alarm setting is displayed in one message view.

When the alarm time comes

The alarm will sound for about 10 seconds and the selected message will be played back. If you have selected "Beep", only the alarm will sound.

When the playback ends, the unit will stop automatically at the beginning of that message. To listen to the same message again, press **REPEAT**.

To stop alarm

Press **STOP** while the alarm sound is heard. You can stop even when the HOLD function is activated.

To cancel the alarm setting or change the alarm time

Select "OFF" in the steps ②, ④, and then press **REPEAT**.

Notes

- 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. "M" 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 VOLUME +/-.
- If the alarm time comes during erasing, alarm will sound for 10 seconds after the erasing is finished and playback begins. An alarm setting will not be cancelled after the alarm playback finishes. To cancel alarm setting, set "Alarm" to "OFF".

▶ Editing Messages

Erasing Messages

Note

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

Erasing messages one by one

You can erase unnecessary messages one by one.

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

Before erasing

Erasing Message 3

Message 1 Message 2 Message 3 Message 4 Message 5

After erasing

Message 1 Message 2 Message 3 Message 4

Remaining messages are renumbered.

1 Display the message you want to erase.

003/010

0:00:00

05y10m10d 10:30

Priority

Move MSG

Alarm

None

2 Press \leftarrow (MENU), and select **(Erase)** by pressing Δ/∇ , and then press **REPEAT**.

The cursor moves to the Edit menu.

3 Press Δ/∇ to select "Erase a MSG" and press **REPEAT**.

The window for selecting the destination folder is displayed.

Move MSG

FOLDER01

FOLDER02

FOLDER03

Execute?

Yes

No

4 Press Δ/∇ to select "Execute" and press **REPEAT**.

The confirmation window is displayed.

5 Press Δ/∇ to select "Yes" and press **REPEAT**.

The message is erased.

6 Press **STOP** to return to the normal display.

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 5.

To erase a message partially

First divide the message and then follow the steps on this section to erase the message.

Erasing all messages in a folder

You can erase all recorded messages in a folder.

1 Display the folder or a message in the folder that you want to erase.

2 Press \leftarrow (MENU), and select **(Erase)** by pressing Δ/∇ , and then press **REPEAT**.

The cursor moves to the Edit menu.

3 Press Δ/∇ to select "Erase All MSG" and press **REPEAT**.

The window for erasing all the messages in a folder is displayed.

4 Press Δ/∇ to select "Execute" and press **REPEAT**.

The confirmation window is displayed.

5 Press Δ/∇ to select "Yes" and press **REPEAT**.

All the recorded messages contained in the folder are erased. The folder itself will not be erased.

To cancel erasing

Press **STOP** before step 4.

6 Press **STOP** to exit the menu mode.

All the recorded messages contained in the folder are erased. The folder itself will not be erased.

To cancel erasing

Press **STOP** before step 4.

Note

If a folder contains a lot of messages, it may take long to erase all the messages.

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 999.

Notes

- Due to the recording system of an IC recorder, you may not be able to divide a message in some cases. For the details, see "Troubleshooting".
- If you divide a message with priority mark(s), priority mark(s) will be added to both parts of the divided message.
- The recorded date and time (the starting date and time of recording) of the divided messages are identical to the original message.
- If you divide a named message, the both parts of the divided messages will have the same message name.
- If you divide a message with an alarm setting, the alarm setting remains only with the former message divided.
- If you divide a message to which the bookmark is set with the supplied Digital Voice Editor, the bookmark is erased from the divided messages.

▶ Handling Folders

Adding / Deleting Folders

By default setting, there are 5 folders ("FOLDER01" through "FOLDER05"). You can add folders as you like. You can also delete unnecessary folders.

Note

The maximum number of folders you can add varies depending on the using conditions. "Folder Full" is displayed in the display window when you cannot add any folder because of the system limitations of the IC recorder.

▶ Expanding the Memory with the "Memory Stick"

Inserting the "Memory Stick"

You can expand the memory by inserting the "Memory Stick Duo" or "Memory Stick PRO Duo" into the MEMORY STICK slot.

Adding a folder

1 Press \leftarrow (MENU), and select **(Edit)** by pressing Δ/∇ , and then press **REPEAT**.

The cursor moves to the Edit menu.

2 Press Δ/∇ to select "Add Folder" and press **REPEAT**.

The window for creating a new folder is displayed.

3 Press Δ/∇ to select "Execute" and press **REPEAT**.

A new folder is added to the end of the current drive.

4 Press **STOP** to exit the menu mode.

About added folder names

The new folder is labeled automatically with the icon \square and double figures or letter like "FOLDER04" or "FOLDERAB". If there is a missing number or letter among the folder names, the new one is labeled using the missing number or letters automatically.

You can change the folder icon and name as you like.

Erasing a folder

1 Display the folder you want to delete.

Note

Once a folder has been erased, you cannot retrieve it. When erasing a folder that contains recorded messages, please check the contents.

2 Press \leftarrow (MENU), and select **(Erase)** by pressing Δ/∇ , and then press **REPEAT**.

The cursor moves to the Erase menu.

3 Press Δ/∇ to select "Erase Folder" and press **REPEAT**.

The window for erasing the folder is displayed.

4 Press Δ/∇ to select "Execute" and press **REPEAT**.

The confirmation window is displayed.

5 Press Δ/∇ to select "Yes" and press **REPEAT**.

The folder is erased.

6 Press **STOP** to return to the normal display.

To cancel erasing

Press **STOP** before step 4.

Notes

- You cannot delete the last folder left in a drive.
- After deleting a folder, the name of the remaining folders are not changed. If "FOLDER04" is erased, for example, the name of "FOLDER04" will remain the same.
- If the folder contains recorded message, "Messages in folder will be erased" will be displayed. If you do, the folder and the contained messages are erased.

Moving Messages to a Different Folder — Move Function

You can move the recorded messages to another folder.

When you move a message to another folder, the one in the previous folder will be erased.

Example: Moving Message 3 in FOLDER01 to FOLDER03