IC Recorder

Operating Instructions

IC Recorder

ICD-BX800

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http://www.sony.net/

you will help prevent potential negative con

Disposal of waste batteries

separate collection systems)

otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help

to conserve natural resources. For more detailed

nformation about recycling of this product, please

lisposal service or the shop where you purchased

(applicable in the European Union

and other European countries with

This symbol on the battery or on the packaging indicates that the battery

chemical symbol. The chemical symbols for mercury

(Hg) or lead (Pb) are added if the battery contains

correctly, you will help prevent potentially negative

which could otherwise be caused by inappropriate

waste handling of the battery. The recycling of the

materials will help to conserve natural resources

In case of products that for safety, performance

should be replaced by qualified service staff only.

o ensure that the battery will be treated properly

hand over the product at end-of-life to the applicable collection point for the recycling of electrical and

For all other batteries, please view the section on how

to remove the battery from the product safely. Hand the battery over to the applicable collection point for

the recycling of waste batteries.
For more detailed information about recycling of this

product or battery, please contact your local Civic Office, your household waste disposal service or the

shop where you purchased the product

Notice for the customers: the

following information is only

applicable to equipment sold

in the countries applying EU

The manufacturer of this product is Sony

Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for

Hedelfinger Strasse 61, 70327 Stuttgart, Germany.

For any service or guarantee matters, please refer to

he addresses given in separate service or guarantee

"FULL" is displayed and you cannot start

• The memory is full. Erase some of the

"FULL" is displayed and you cannot

99 messages have been recorded in the

Therefore you cannot record another

folder, or erase some of the messages.

• An object, such as your finger, etc.,

accidentally rubbed or scratched the IC

• The IC recorder was placed near an AC

phone during recording or playback.

 \bullet The \bigcap (headphones) plug is dirty. Clean

"SENS" (microphone sensitivity) is set to

"L" Display the menu and set "SENS" to

You need a certain amount of free space in

folder, you cannot divide a message in that

You may not be able to divide a message at

the beginning or at the end of the message

when recording. Clean the plug.

You cannot divide a message.

the memory to divide a message

because of system limitations.

• If 99 messages have been recorded in a

folder. 99 messages have been recorded

in the selected folder. Erase some of the

recorder during recording so that noise was

power source, a fluorescent lamp or a mobile

Plug of the connected microphone was dirty

selected folder or 495 messages (when there

message, or move a message. Select another

• The VOR function is activated. Set "VOR" to

are 5 folders) in total have been recorded

operate the IC recorder

Recording is interrupted.

"OFF" in the menu.

Noise is heard.

the plug.

Recording level is low.

messages

EMC and product safety is Sony Deutschland GmbH,

directives

onsequences for the environment and human health

connection with an incorporated battery, this battery

ore than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of

rovided with this product shall not

be treated as household waste.

On certain batteries this symbol

might be used in combination with a

contact your local Civic Office, your household waste

Notice for the customers in Canada This Class B digital apparatus complies with Canadian ICES-003

FOR UNITED STATES CUSTOMERS.

CANADA, Y COMPRIS LA PROVINCE

NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF OUEBEC. **POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU**

DE QUÉBEC. 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 ordance with the instructions, may cause harmfu 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

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 modification not expressly approved in this manual could void your authority to operate this equipment.

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

For the customers in Europe

Disposal of Old Electrica2l & **Electronic Equipment (Applicable** in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this man shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and this product is disposed of correctly

Troubleshooting

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

The IC recorder cannot be turned off. Slide the HOLD switch in the direction of the arrow when the IC recorder is in the stop mode

The IC recorder cannot be turned on

• The HOLD switch is set. Slide the HOLD switch in the direction opposite that of the

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 batteries have been inserted with

incorrect polarity.

- The batteries are weak • The power to the IC recorder is off. Slide the
- HOLD switch in the direction opposite that • The HOLD function is activated. Slide the
- HOLD switch in the direction opposite that of the arrow. No sound comes from the speaker.

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

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

The operation indicator does not light. • "LED" is set to "OFF." Display the menu and set "LED" to "ON."

then insert them securely

• If you divide a message frequently, the unit may become unable to divide the message

You selected a message that has been locked. Set "LOCK" to "OFF" in the menu before dividing the message

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

Playback speed is too fast or too slow. • The playback speed is adjusted in DPC.

Adjust the speed in DPC again in the menu. "--:-" is displayed.

• You have not set the clock. "--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.

The clock setting is reset.

 \bullet The clock setting will be reset within about 1 minute. When you replace the batteries, please provide new batteries

"SET DATE" is displayed and you cannot

set the alarm. • If the clock is not set, you cannot set the

"PRE SET" is displayed and you cannot set · You cannot set the alarm at the same date

and time previously set on another message. "BACK-D" is displayed and you cannot set

• You cannot set the alarm when the time has already passed

Error Messages

LO BATT

• Batteries are exhausted. Replace the old batteries with new ones.

SET DATE • Set the clock; otherwise, you cannot set the

before recording

FULL (REC flashes at the same time) • The remaining memory capacity of the IC recorder is insufficient. Erase some messages

FULL ("99" flashes at the same time)

• As there are already 99 messages in the current folder, you cannot record a new message. Erase some messages before

FULL (folder indicator flashes at the same

• As there are already 99 messages in the folder to which you want to move a message, you cannot move the message. Erase some messages before moving.

NO DATA

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

PRE SET

· You set the alarm to play back a message at a date and time previously set on another message. Check the setting and set the appropriate date and time.

There are fewer menu items displayed in

The menu items displayed are different

depending on the operation modes (stop

• The battery life is based on playback with

the volume level set to 27. The battery life

There is no battery power remaining after you have left the batteries inserted for

long time without using the IC recorder.

· Even if you do not use the IC recorder,

on humidity or other environmental

The changed menu setting does not

· If the batteries are removed just after the

menu setting is changed, the menu setting

It takes a long time for the IC recorder to

• 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

the start-up display disappears

You cannot erase a message.

erasing the message.

The IC recorder does not operate

malfunction of the IC recorder. Wait until

Take out the batteries and insert them again.

· You selected a message that has been locked.

Set "LOCK" to "OFF" in the menu before

remove the batteries.

may not function.

the batteries are consumed slightly. The

battery life in this case varies depending

conditions. Usually, the batteries last abou

2 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 or

may shorten depending on the operation of

mode, playback mode and recording mode)

the menu mode.

The battery life is short.

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

LOCK (f) flashes at the same time) · You selected a message that has been locked You cannot move it, erase it, add a new

message to it, add an overwritten message to it, or divide it. Set "LOCK" to "OFF" in the menu before editing the message.

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

ERR ACCESS

ERR 01 - ERR 06

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

System Limitations

not malfunctions of the IC recorder You cannot record messages up to the

- The sum of the number on the counter (elapsed recording time) and the remaining ording time may be less than the IC recorder's maximum recording time.

There are some system limitations of the IC recorder. Troubles as mentioned below are

- maximum recording time. • If you record messages in a mixture of SHQ, HQ, SP and LP modes, the recordable time varies from the maximum SHQ mode recording time to the maximum LP mode recording time.

You cannot specify the finishing point B.

You cannot specify the finishing point B

before the starting point A has been set. set positions move a little

When you set A-B Repeat playback, the

• Depending on the files, the set positions may move.

Getting Started

Step 1: 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 batteries (2)

Stereo headphones* (1)

Carrying pouch* (1)

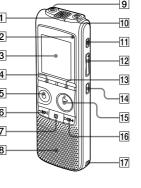
Stereo microphone with shirt-clip*

Operating Instructions

* The stereo headphones, carrying pouch and stereo microphone with shirt-clip are supplied with some models in some regions

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



1 Built-in microphone

2 Operation indicator 3 Display window

4 DIVIDE button **5** ● REC/PAUSE button

6 - ← (review/fast backward) button **7** ■ (stop) button

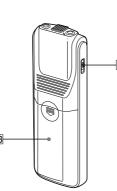
8 Speaker 9 **९** (microphone) jack*

10 ∩ (headphone) jack 11 ERASE button

12 VOL (volume) +*/- button 13 FOLDER/MENU button 14 (repeat) A-B button

15 ► PLAY/STOP•ENTER button* 16 ►► + (cue/fast forward) button

17 Strap hole (A strap is not supplied.) * These buttons and the iack have a tactile dot Use it as a reference point for operations, or to identify each terminal.



7 REMAIN indicator

indicator.

9 Battery indicator

this paper.

recording

13 Lock indicator

in the menu.

in the menu

DPC setting

17 Elapsed time/Remaining

indication/Message

time/Recorded date or time

"ON" in the menu

When the IC recorder is in the

recording or stop mode, the remaining

message is displayed with the REMAIN

Displays the remaining memory and

decreases one by one during recording.

Displays the remaining battery power.

Displays the recording mode set using

recording or stop mode, and displays

the current recording mode when the

"Menu settings" on the reverse side of

Appears when "N-CUT" is set to "ON"

Appears when "LOCK" is set to "ON"

Appears when the "EASY-S" is set to

Appears when the "DPC" is set to "ON"

15 DPC (Digital Pitch Control) indicator

16 Total number of messages in the folder/

• Do not use manganese batteries for this IC

• When replacing the batteries, be sure to

replace both batteries with new ones.

• When you are not going to use the IC

recorder for a long time, remove the

batteries to prevent damage from battery

Clock setting display appears and the year

section flashes when you insert batteries for

the first time, or when you insert batteries

batteries for a certain period of time. See

"Setting the clock after preparing a power

When to replace the batteries

The battery indicator in the display window

Replace the old batteries with new

"LO BATT" flashes and the IC

recorder will stop operation.

When you are not using the IC recorder.

• When you are not going to use the IC

• When 10 minutes have passed after you

turn off the IC recorder.

recorder for a long time, we recommend to

have turned on the IC recorder and leave it

without doing anything, the display goes off

automatically. (Press any button to show the

seconds.

Ϋ́ Tips

display.)

you can prevent the batteries from getting

after the IC recorder has been without

source" to set the date and time.

shows the battery condition

Battery remain indication

Do not charge dry batteries.

leakage and corrosion

IC recorder is in the playback mode.

For details about the settings, see

Appears while the IC recorder is

the menu when the IC recorder is in the

recording time is displayed with the

REMAIN indicator, or when the IC

recorder is in the playback mode,

the remaining time of the current

8 Remaining memory indicator

10 Recording mode indicator

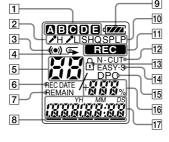
11 REC (recording) indicator

12 N-CUT (noise cut) indicator

14 EASY-S (easy search) indicator

18 Battery compartment 19 HOLD switch

Display window



- 1 Folder indicator Displays the folder (A, B, C, D, o
- (a) vou have selected. 2 Microphone sensitivity Displays the microphone sensitivity. For details about the settings, see "Menu settings" on the reverse side of
- this paper. 3 Alarm indicator Appears when the alarm is set for a
- message. 4 Repeat play indicator Appears when a message is played back

Remove the film on the display window

Slide and lift the battery compartment lid,

insert LR03 (size AAA) alkaline batteries

with correct polarity, and close the lid.

before you use the IC recorder.

If the battery compartment lid is

illustrated

accidentally detached, attach it as

• When replacing the batteries, messages

even when you remove the batteries.

time after you remove the batteries.

Turning the power on

Slide the HOLD switch in the opposite

direction from that of the arrow. The IC

recorder turns on, and "ACCESS" flashes.

• When replacing the batteries, the clock

recorded or alarm settings are not erased

ues moving for a certain period o

Step 3: Turning the IC Recorder On

Step 2: Preparing a Power Source

- repeatedly. 5 Selected message number
- 6 REC DATE (recorded date) indicator The recorded date or time is displayed with the REC DATE indicator

1 Press – | **◄** or **▶** | + to set the year, month, day, hour, and minute in sequence, and then press

► PLAY/STOP•ENTER.

2 Press **■** (stop) to return to the stop mode

Setting the clock using the

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

- 1 Press and hold FOLDER/MENU to enter the menu mode. The menu mode will be displayed.
- "SET DATE," and then press ► PLAY/STOP•ENTER.

2 Press - I or ►►I+ to select

BRTE

3 Press – I or ► I + to set the year, month, day, hour, and minute in sequence, and then press

➤ PLAY/STOP•ENTER.

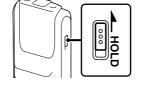
4 Press ■ (stop) to return to the stop mode

 You can set the time display for the clock to "12H" (12-hour display) or "24H" (24-hour appears in the display window.

■ Note

If you do not press ► PLAY/STOP•ENTER within 1 minute of entering the clock setting data, the clock setting mode is cancelled and the window will return to the stop mode

Preventing Accidental Operation (HOLD)



Slide the HOLD switch in the direction

"HOLD" will flash, indicating that all the functions of the buttons are locked.



Unlocking the buttons

Slide the HOLD switch in the opposite

When the HOLD function is activated during

Before making a recording, exit HOLD mode and turn on the power

Selecting a folder

1 Press FOLDER/MENU to select the folder in which you want to record messages (**A**, **B**, **C**, **D**, or **E**). the IC recorder.

> If you do not change the folder after you stop recording, the next time you record you will record in the same

1 Press ● REC/PAUSE in the stop mode. The operation indicator lights in red. (When "LED" is set to "OFF" in the menu, the operation indicator does

not light.) You do not need to press and hold ● REC/PAUSE while

the last recorded message **2** Turn the built-in microphone in the direction of the



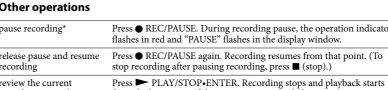
● REC/PAUSE

review during recording

source to be recorded.

To stop recording **1** Press **■** (stop).

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



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

Ϋ́ Tips

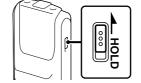
You can record up to 99 messages in each folder.

• Before you start recording, we recommend you make a trial recording first, or monitor the · While recording you can lock all the functions of all the buttons so that you can prevent

recorder during recording. • Before making a recording, be sure to check the battery indicator.

Remaining memory indication

Locking the buttons



of the arrow in the recording or playback



direction from that of the arrow so that all buttons will be unlocked.

recording, all the functions of the buttons are locked to prevent accidental operation. To stop

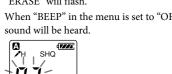
Even if the HOLD function is activated, you can stop the alarm playback by pressing a

recording, cancel the HOLD function first.

Erasing

• Before erasing a message, exit HOLD mode and turn on the power.

recorder is in the stop or playback mode.



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

To cancel erasing

1 Press ■ (stop) before step 3 of "Selecting a message and erasing it."

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

Listening

Before playback starts, exit HOLD mode and turn on the power

1 Press FOLDER/MENU to select the folder (A, B, C,

automatically to the remaining time display.

To start playback

- FOLDER/MENU **D**, or **3**). **2** Press – I or ►► to select the message you want to

When the remaining time of recording reaches 10 minutes, the last one of the indication

If the remaining recording time display mode is selected, the remaining recording time

When the memory is full, recording automatically stops and REC and "FULL" will flash

in the display window for about 3 seconds. To continue recording, first erase some of the

display will also flash when the remaining time reaches 1 minute. The display will be changed

VOL +/-

To stop playback 1 Press ■ (stop).

stop at the current position Press ► PLAY/STOP•ENTER or ■ (stop). To resume playback from (Playback Pause function) that point, press ► PLAY/STOP•ENTER again. go back to the beginning of Press -I◀ once*. the current message go back to previous Press – $\blacktriangleright \blacktriangleleft$ repeatedly. (During stop mode, keep the button pressed to go back the messages continuously.) skip to the next message Press ▶►+ once*.

skip the messages continuously.

inadvertent operations by sliding the HOLD switch in the direction of the arrow.

* These operations are for when "EASY-S" (Easy Search function) is set to "OFF."

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

1 Select the message you want to erase when the IC

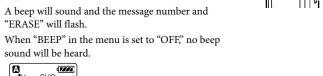
stop mode.



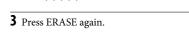
Erasing another message

Erasing a part of one message

2 Press ERASE while you are playing back the message you want to erase, or press and hold ERASE during the A beep will sound and the message number and







space between messages.

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Setting the clock after preparing a power source





display

• Press FOLDER/MENU to return to the

display) in the "HOUR" menu, When "12H" (12-hour display) is set, "AM" or "PM"

3 Press ► PLAY/STOP•ENTER. Playback will start soon, and the operation indicator will light in green. (When "LED" is set to "OFF" in the menu, the operation indicator does not light.)

4 Press VOL +/- to adjust the volume.

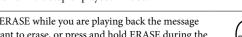
Other operations

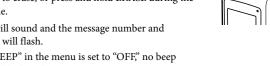
Press ▶► repeatedly. (During stop mode, keep the button pressed to skip to the succeeding

During playback you can lock all the functions of all the buttons so that you can prevent

■ Notes

• If the message you want to erase is locked in the menu, the message is not erased. Selecting a message and erasing it





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



Proceed with the same steps again from the beginning.

beginning.

• The maximum recording time varies if you record messages in mixed recording mode.

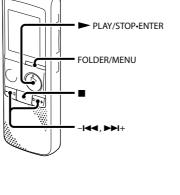
Note

Ϋ́Tip button. (You cannot stop normal playback.)

recording. The new message will be automatically recorded after

weak quickly by turning the power off.
Slide the HOLD switch in the direction of
the arrow in the stop mode. "OFF" flashes.
The IC recorder turns off within a few

Step 4: 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 batteries for the first time, or when you insert batteries after the IC recorder has been without batteries for a certain period of time, the year section flashes in the display window.



Recording

There are 5 folders already available when you purchase

Starting to record



e, the operation indicator nes from that point. (To

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 - | playback starts from that point.

• Messages recorded using this IC recorder will be recorded as MP3 files.

 \bullet While the operation indicator is flashing in orange, do not remove the batteries. Doing so may • Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC

During recording, the remaining memory indicator decreases one by one The memory is nearly

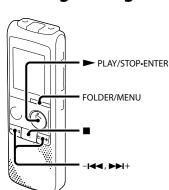
inadvertent operations by sliding the HOLD switch in the direction of the arrow.

FOLDER/MENU



Other operations	
ause recording*	Press ● REC/PAUSE. During recording pause flashes in red and "PAUSE" flashes in the disp
elease pause and resume ecording	Press ● REC/PAUSE again. Recording resume stop recording after pausing recording, press ■
eview the current ecording instantly	Press ► PLAY/STOP•ENTER. Recording sto from the beginning of the message just record

Making Settings for the Menu



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

The menu mode window will be



2 Press – I or ►►I+ to select the menu item for which you want to make setting, and then press ► PLAY/STOP•ENTER.

<u> 58 %5</u>

3 Press – I or ►►I+ to select the setting that you want to set, and then press ► PLAY/STOP•ENTER.

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

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

To return to the previous window Press FOLDER/MENU during menu mode.

To exit the menu mode Press **■** (stop).

Menu settings		
Menu items	Settings (*: Initial setting)	
MODE	Sets the recording mode. SHQ*: Super high-quality monaural recording mode (44.1 kHz/192 kbps) You can record with monaural super high-quality sound.	
	HQ: High-quality monaural recording mode (44.1 kHz/128 kbps) You can record with monaural high-quality sound. SP:	
	Standard play monaural recording mode (44.1 kHz/48 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.	
SENS	Sets the microphone sensitivity.	
	To record a sound far away from the IC recorder or a low sound, such a a recording made in a spacious room. • L:	
	To record dictation with a microphone in front of your mouth, a sound near the IC recorder, or a loud sound.	
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 ● REC/PAUSE is pressed. OFF*:	
	The VOR function does not work.	
REC-OP	Adds a recording to a previously recorded message or adds an overwrite recording during playback. ON:	
	You can add a recording or overwrite a recording. ADD*:	
	You can add a recording. OVER: Voy can everywrite a recording.	
	You can overwrite a recording. OFF*: You cannot add a recording or overwrite a recording.	
DPC	Sets the DPC (Digital Pitch Control) function. ON: You can adjust the speed of the playback in a range from +100% to -50%, by 10% increments for the + setting and by 5% increments for th - setting.	
	-30%* OFF*: The DPC function is cancelled.	

The distortion of very low and high frequencies which are outside the human voice range is reduced, therefore you can hear the human voice more clearly. The noise cut function does not work.

Sets the easy search function. EASY-S

Sets the noise cut function.

N-CUT

SET DATE

HOUR

ALARM

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. The easy search function does not work. When you press ▶▶ + or

- I◀◀, a message will be moved forward or backward. CONT Plays back the messages in the selected folder continuously. The CONT function is activated.

A message is played back and the IC recorder stops at the beginning of DISPLAY ELAPSE*: During recording, the recording time of the current message

During playing back, the elapsed playback time of one message During recording or being stopped, the available recording time During playing back, the remaining time of the message REC DATE Date recorded REC TIME:

Time recorded

□ Notes

• If the remaining recording time is less than 1 minute, the display will change automatically to the remaining time display and the display will

• If the IC recorder is left unoperated for more than 3 seconds in the stop mode, the display will return to the current time, regardless of the display

Sets the clock by setting year, month, day, hour, and minute in sequence. Sets the clock display.

0:00 = midnight, 12:00 = noon Sets whether a beep will be heard or not. A beep will sound to indicate that an operation has been accepted or an

No beep sound will be heard.

AM12:00 = midnight, PM12:00 = noon

The alarm sounds even if you set "BEEP" to "OFF" in the menu. Turns the operation indicator on or off during operation.

During recording or playback, the operation indicator lights or flashes. The operation indicator does not light or flash, even during operation. Sets the alarm.

To set the alarm, select "ON" and set the date, time or day of the week, or choose "DAILY" for playback. The selected message will be played back after the alarm when the alarm time comes

Only the alarm will sound when the alarm time comes.

Only the selected message will be played back when the alarm time

The alarm setting is cancelled.

· You can set only one alarm each one message • "ALARM OFF (or ON)" will not appear and the alarm cannot be set if the clock has not been set or no message has been recorded in the selected • When the clock has not been set or no messages are recorded, you cannot

Settings (*: Initial setting)

■ Notes

• The alarm sounds even if you set "BEEP" to "OFF" in the menu. • 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 • If the alarm time comes during recording, the alarm will sound after the recording is finished. "(*)" will flash when the alarm time comes

• If the alarm time comes while you are updating data, the alarm will be

cancelled automatically · If more than one alarm time comes, only the first message will be played back with an alarm.

• Once the alarm is set, the alarm will not be cancelled, even after the message is played back

• If the alarm time comes while another message is being played back with an alarm, the payback stops and the new message will be played back.

• If you divide a message you have set an alarm for, the alarm setting remains on only the first part of the divided message. • If you delete a message on which you have set an alarm, that alarm will be

also cancelled. • If the alarm time comes during erasing operation, alarm will sound for 10 seconds after the erasing is finished and playback begins. LOCK Locks the message so that you cannot move it, erase it, add a new message

to it, add an overwritten message to it, or divide it. The lock function is activated. The lock function is cancelled.

The selected message will be moved to the selected folder (\triangle , \square , \square , \square , or \square). MOVE Before attempting to move a message, select the message to be moved, and then go to the menu window. ALL ERASE All messages in the selected folder will be erased. Select a folder from which all messages are to be erased, and then go to the menu window and press ➤ PLAY/STOP•ENTER while "ALL ERASE" is flashing.

Other Recording Operations

Menu items

Monitoring the Recording

If you connect commercially available headphones to the () (headphone) jack before you start, you can monitor the

recording. You can adjust the monitoring volume by pressing VOL +/-, but the recording level is fixed.

Selecting the Recording Mode

You can select the recording mode in the menu when the IC recorder is in the stop mode.

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

2 Press - I or ► I+ to select "MODE," and then press ► PLAY/STOP•ENTER.

3 Press – I or ►►I+ to select "SHQ," "HQ," "SP," or "LP," and then press ► PLAY/STOP•ENTER.

4 Press ■ (stop) to exit the menu mode

For details about the settings, see "Menu To record with better sound quality, select the SHQ or HQ mode. The recording mode is set to "SHQ" when you purchase the IC recorder.

☑ Note You cannot set the recording mode while recording.

Setting the Microphone Sensitivity

You can set the microphone sensitivity in the menu when the IC recorder is in the recording or stop mode.

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

The menu mode window will be displayed.

2 Press - I or ▶►I+ to select "SENS," and then press ► PLAY/STOP•ENTER.

3 Press – H or → + to select "→" H" or

"L" and then press ► PLAY/STOP•ENTER. **4** Press **■** (stop) to exit the menu mode

For details about the settings, see "Menu

The microphone sensitivity is set to " H" when you purchase the IC recorder.

Dividing a Message 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. Once a message is divided, you cannot recombine the divided messages.

1 Press DIVIDE during recording. "DIVIDE" and a new message number flash in the display window 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. Message 1 Message 2 Message 3

Ţ Tip

Message is divided.
Message 2 and Message 3 are recorded

• You need a certain amount of free space in the memory to divide a message

 You cannot divide a message at the very beginning (0.5 seconds from the beginning) 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.

• If you divide messages too frequently while the IC recorder is recording them, the following phenomenon may occur: The operation indicator keeps flashing, and you cannot operate the IC recorder for a certain period. This is not a malfunction. Wait until

the operation indicator goes off. 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 overlap. You may hear the same sounds at these points in both messages. • If the remaining recording time is less than 3

seconds, you cannot divide a message.

You can divide the currently recorded message during recording pause.

Recording with an External Microphone or from Other Equipment

1 Connect an external microphone or other equipment to the \(^{\chi}\) (microphone) jack when the IC recorder is in the stop

When the recording mode is set to "SHQ" or "HQ," and a stereo microphone is used, you can record sound in stereo. When you use an other equipment, connect the audio output connector (stereo mini-plug) of other equipment to the \(^\) (microphone) jack of the IC

recorder using an audio connecting cable (not supplied). For details about the audio connecting cable, see "Specifications."

messages (**A**, **B**, **C**, **D**, or **E**). 3 Press ● REC/PAUSE to start recording. The built-in microphone is automatically

2 Press FOLDER/MENU to select the

folder in which you want to record

cut off. If the input level is not strong enough, adjust the microphone sensitivity on the When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC

4 Press ■ (stop) to stop recording.

· Before you start recording, we recommend you make a trial recording first. • If the input level is not strong enough,

TRECOMMENDE MICROPHONES

• You can use the Sony ECM-DM5P,

ECM-Z60 (U.S.A. only), ECM-CS10,

electret condenser microphone (not

ECM-CZ10, ECM-DS70P, ECM-DS30P

Recording sound from a telephone

You can use the ECM-TL1 headphone-

type electret condenser microphone (not

(The clip is detachable.)

or a cell phone

connect the headphone jack (minijack stereo) of other equipment to the ⁴ (microphone) jack of the IC recorder and adjust the volume level on the equipment connected to the IC recorder.

• Stereo microphone with shirt-clip is supplied

with some models in some regions only.

the sound quality of the conversation

with the ECM-TL1 microphone.

or a cell phone.

■ Notes • After you have made the connection, check

supplied) to record sound from a telephone

For details on how to make the connection

refer to the operating instructions supplied

and the recording level before you start

• 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

optional accessories. Please ask the dealer for

• We assume no responsibility whatsoever for any inconvenience, even if you cannot record a conversation using the IC recorder Your dealer may not handle some of the

detailed information.

Adding a Recording to a Previously Recorded Message

When "REC-OP" in the menu is set to "ADD," you can add a recording to the message being played back. The added recording will be placed after the current message, and will be counted as a part of the message

Message 3 Message 4 After adding a recording

Message 3

During playback of Message 3

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

Added recording

Message 4

Adding an Overwrite Recording during

Message 3 Message 4

The deleted part of

Message 2

The menu mode window will be displayed.

2 Press - I or ►►I+ to select "REC-OP,"

and then press ► PLAY/STOP•ENTER.

3 Press – I or ►►I+ to select "ON," and then press ► PLAY/STOP•ENTER.

When "REC-OP" in the menu is set

recording after a selected point in a

The starting point of an overwrite recording

Added overwrite recording in Message 2

the menu mode.

displayed.

to "OVER," you can add an overwrite

recorded message. The remainder of the

message after the selected point is deleted.

Message 3

1 Press and hold FOLDER/MENU to enter

The menu mode window will be

2 Press - I or ►►I+ to select "REC-OP,"

3 Press – I or ► + to select "ON," and

then press ► PLAY/STOP•ENTER.

Other Playback Operations

• To listen with the headphones:

available headphones to the 🔾

Connect a supplied or commercially

will be automatically disconnected.

• To listen from an external speaker:

supplied) to the Ω (headphone) jack.

Quickly locating the point you

wish to start playback (Easy

Search)

(headphone) jack. The built-in speaker

Connect an active or passive speaker (not

When "EASY-S" is set to "ON" in the menu,

you can quickly locate the point at which

-I◀ or ▶►I+ repeatedly during playback.

you wish to start playback by pressing

You can go back approx. 3 seconds by

pressing -I◀ once, or advance approx.

10 seconds by pressing ▶► + once. This

function is useful for locating a desired

Searching forward/backward

during playback (Cue/Review)

Press and hold ▶► during playback and

release it at the point you wish to resume

Press and hold -I◀◀ during playback

and release it at the point you wish to

The IC recorder searches at slow speed with

playback sound first. This is useful to check

one word forward or back. Then, if you

starts to search at higher speed.

press and hold the button, the IC recorder

point in a long recording.

• To search forward (Cue):

• To search backward (Review):

playback.

resume playback.

Listening with better sound quality

and then press ► PLAY/STOP•ENTER.

Convenient Playback Methods

Playback

Message 2

Message 2

and then press ► PLAY/STOP•ENTER

4 Press - I or ►► + to select "ADD,"

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

6 When the message to be added is played back, press ● REC/PAUSE. REC and "ADD" will flash and the IC recorder stops in the recording pause

7 While "ADD" is flashing, press ● REC/ PAUSE again. The operation indicator will light in red, and the recording will be added at the end of the current message.

8 Press **■** (stop) to stop recording

■ Notes

 You cannot add a recording if the remaining memory is insufficient. • The added portion of a message will be

4 Press – I or ▶►I+ to select "OVER,"

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

6 When the message to be overwritten is

played back, press \bullet REC/PAUSE.

REC and "OVER" will flash and the IC

recorder stops in the recording pause

7 While "OVER" is flashing, press ● REC/

The operation indicator will light in red,

PAUSE again.

■ Notes

and recording starts.

8 Press ■ (stop) to stop recording.

• You cannot overwrite a recoding if the

recorded in the same recording mod

The overwritten portion of a message will be

• If 10 minutes have passed after step 6, you

must start the procedure again from the

When messages are played back to

• When you play back or fast play back

to the end of the last message, "END"

flashes up for 5 seconds and the operation

indicator lights up in green. (You cannot

• When "END" and the operation indicator

go off, the IC recorder will stop at the

• If you press and hold -◄ while "END"

is flashing, the messages are played back

• If the last message is long and you wish

to start playback at a later part of the

rapidly, and normal playback will start at

message, press and hold ▶▶ + to go to the

end of the message and then press −I◀◀

• For messages other than the last one, go

play backward to the desired point.

STOP•ENTER until "→" appears. The

selected message will be played back

To resume normal playback, press

► PLAY/STOP•ENTER again.

to the beginning of the next message and

Playing back a message repeatedly

During playback, press and hold ► PLAY/

while "END" is flashing to go back to the

the end of the last message

hear the playback sound.)

beginning of the last message.

the point you release the button.

desired point.

repeatedly.

remaining memory is insufficient.

and then press ► PLAY/STOP•ENTER.

recorded in the same recording mode. • If 10 minutes have passed after step 6, you must start the procedure again from the

the very beginning (0.5 seconds from the beginning) or at the very end (0.5 seconds prior to the end) of the message.

3 Press – I or ►►I+ to select "ON," and

then press ► PLAY/STOP•ENTER.

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

• The effect of the noise cut function may

of the recorded voice.

Repeat playback:

■ Notes

be different depending on the condition

· When you are using the built-in speaker

function may not be effective.

Set "N-CUT" to "OFF" in step 3.

To cancel the noise cut function

To change the segment specified for A-B

During A-B Repeat playback, press

(repeat) A-B again to specify a new

You cannot specify the finishing point B

before the starting point A has been set.

• You cannot set point A and point B at

starting point A. Then specify a new

finishing point B, as in step 2.

or monitoring the recording, the noise cut

Recording with Other Equipment

Making the Human Voice Clearer – the Noise

Playing Back a Specified Section Repeatedly –

Cut Function

When the noise cut function is set to "ON"

and high frequencies which are outside the

you can hear the human voice more clearly.

1 Press and hold FOLDER/MENU to enter

the menu mode when the IC recorder is

in the stop or playback mode.

displayed.

A-B Repeat

"A-B B" flashes.

repeatedly.

Press ■ (stop).

the finishing point B.

To resume normal playback:

Press ► PLAY/STOP•ENTER.

To stop A-B Repeat playback:

The menu mode window will be

2 Press – I or ►►I+ to select "N-CUT,"

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

2 Press (repeat) A-B again to specify

"and "A-B" are displayed and

the specified section is played back

to specify the starting point A.

and then press ► PLAY/STOP•ENTER.

human voice range is reduced, therefore

in the menu, the distortion of very low

You can record the sound of the IC recorder with other equipment. Before you start recording, we recommend you to make trial recording first.

1 Connect the ∩ (headphone) jack of the IC recorder to the audio input connector (stereo minijack) of other equipment using an audio connecting cable (not supplied).

For details about the audio connecting cable, see "Specifications."

2 Press ► PLAY/STOP•ENTER 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.

Editing Messages

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

The current message number and "DIVIDE" flash.

2 Press DIVIDE. "DIVIDE" appears, a new number is added to the newer part of the divided message, and the message numbers

of the following messages will be

incremented by one. Message 1 Message 2 A Message is divided. Message 1 Message 2 Message 3 Message 4

The message numbers are incremented

To cancel dividing the message Press ■ (stop) before step 2.

• You need a certain amount of free space in the memory to divide a message. • 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 unwanted messages or by moving some of the messages to another

folder before dividing a message · When you divide a message with a title and artist name, the newer part has the same title

and artist name. · 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. • If you divide a message during A-B Repeat playback or one message repeat playback the repeat setting will be cancelled. If more than 10 seconds have passed after step 1, you must start the procedure again from the beginning.

To play the divided message

Press -I◀◀ or ▶►I+ to display the message number, as the divided messages now each have message numbers.

Additional Information

Precautions

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

or two NH-AAA rechargeable batteries.

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

On handling

• Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical

• Should any solid object or liquid fall into

In particular, be careful in the following

the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further. • Be careful not to allow water to splash on the unit. The unit is not water-proof.

- When you have the unit in your pocket and go to the bathroom, etc. When you bend down, the unit may drop into the water and may get wet.

 When you use the unit in an environment where the unit is exposed to rain, snow, or humidity. - In circumstances where you get sweaty. If you touch the unit with wet hands or if you put the unit in the pocket of sweaty clothes, the unit may get wet. • You may feel pain in your ears if you

use the headphones when the ambient air is very dry. This is not because of a malfunction of the headphones, but because of static electricity accumulated in your body. You can reduce static electricity by wearing non-synthetic clothes that prevent the emergence of static electricity.

On noise

• Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.

 Noise may be recorded when an object. such as your finger, etc., rubs or scratches the unit during recording.

On maintenance

To clean the exterior, use a soft cloth slightly moistened in water. 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, etc.

Dimensions (w/h/d) (not incl. projecting

Approx. 71 g (2 1/2 oz) including LR03 (size

*1 Measured value by the standard of JEITA

(Japan Electronics and Information

Technology Industries Association)

see "Step 1: Checking the Contents of the

Electret condenser microphone ECM-DM5P,

Audio connecting cable* RK-G136, RK-G139

ECM-Z60 (U.S.A. only), ECM-CS10,

Rechargeable battery NH-AAA-B2K

Battery charger BCG-34HS2KA (excluding

To the other

equipment

Mini-plug

Latin America), BCG-34HLD22K (Latin

* Audio connecting cable

To the IC

recorder

mini-plug

the dealer for detailed information

Your dealer may not handle some of the

above listed optional accessories. Please ask

ECM-CZ10, ECM-DS70P, ECM-DS30P,

 $37 \text{ mm} \times 111 \text{ mm} \times 21.2 \text{ mm}$ (1 1/2 in. \times 4 3/8 in.

parts and controls) (JEITA)*

Mass (JEITA)*1

Supplied accessories

Optional accessories

(excluding Europe)

America only)

RK-G139 Stereo

RK-G136 Stereo

ECM-TL1

Active speaker SRS-M50

Specifications

Design and specifications

IC recorder section

Capacity (User available capacity) 2 GB (approx. 1.79 GB = 1,924,136,960 Byte) A part of the memory capacity is used as a management area

Frequency range • SHQ: 75 Hz - 20,000 Hz • HQ: 75 Hz - 17,000 Hz • SP: 75 Hz - 15,000 Hz • LP: 80 Hz - 3,500 Hz

LP: 11.025 kHz, 8 kbps

MP3 bit rate and sampling frequency for recording mode

• SHQ: 44.1 kHz, 192 kbps • HQ: 44.1 kHz, 128 kbps • SP: 44.1 kHz, 48 kbps

General

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

Input/Output • Microphone jack (minijack, stereo) - input for plug in power, minimum input level 0.4 mV, 3 kilohms or lower

impedance microphone · Headphone jack (minijack, stereo) - output for 16 ohms - 300 ohms

Playback speed control (DPC)

+100% to -50% Power output 300 mW

Power requirements Two LR03 (size AAA) alkaline batteries (supplied): 3.0 V DC Two NH-AAA rechargeable batteries (not supplied): 2.4 V DC

5°C - 35°C (41°F - 95°F)

Design and specifications are subject to change without notice. Operating temperature

Maximum recording time*2*3 The maximum recording time of all the folders is as follows.

SHO mode HO mode SP mode LP mode 22 hr. 15 min 33 hr. 20 min 534 hr. 25 min. 89 hr (hr.: hours/min.: minutes

 *2 When you are going to record continuously for a long time, you may have to replace the batteries with new ones in the midst of recording.

*3 The maximum recording time varies if you record messages in mixed recording mode

Battery life*4

headphones

When using Sony LR03 (SG) (size AAA) alkaline batteries (with continuous use) Recording mode*5 SHO HQ Recording Approx. 34 hr. Approx. 34 hr. Approx. 39 hr. Approx. 55 hr. Playback*6 through Approx. 12 hr. Approx. 12 hr. Approx. 12 hr.

Playback using the Approx. 36 hr. Approx. 36 hr. Approx. 36 hr. Approx. 36 hr. (hr.: hours

When using Sony NH-AAA rechargeable batteries (with continuous use) Recording mode*5 SHQ Recording Approx. 22 hr. Approx. 22 hr. Approx. 27 hr. Approx. 37 hr. Approx. 10 hr. Approx. 10 hr. Playback*6 through Approx. 10 hr. Approx. 10 hr.

Approx. 25 hr. Approx. 25 hr. Approx. 25 hr.

*4 The battery life is measured in testing using methods proprietary to Sony. The battery life may shorten depending on how you operate the IC recorder. *5 For details about the recording mode, see "Menu settings."

Trademarks

Playback using the

headphones

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