



IC Recorder

Operating Instructions

ICD-BX022

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http://www.sony.net/

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

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

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

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 co 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

For the customers in Canada

This class B digital apparatus complies with Canadian ICES-003.

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.

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.

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 then insert them securely.

Recording is interrupted.

• The VOR function is activated. Set "VOR" to "OFF" in the menu. For details, see "Menu settings" on the reverse side of this paper.

Noise is heard.

- Plug of the connected microphone was dirty when recording. Clean the plug.
- The plug of the connected headphones is dirty. Clean the plug.

Playback speed is too fast or too slow.

 The playback speed is adjusted in DPC. Adjust the speed in DPC again in the menu For details, see "Menu settings" on the reverse side of this paper

"--:-" 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. For details, see "Menu settings on the reverse side of this paper.

The clock setting is reset.

• You must set the clock every time you replace batteries.

There are fewer menu items displayed in the menu mode. • The menu items displayed are different

depending on the operation modes (stop mode, playback mode and recording mode)

The IC recorder does not operate

• Take out the batteries and insert them again

You cannot erase a message.

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

Message List

LO BATT

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

FULL (BEO flashes at the same time)

 \bullet 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 or move some messages to other folder 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 nessages before moving.

NO DATA

• The selected folder does not have any messages. You cannot move a message, etc.,

LOCK (flashes at the same time)

 You selected a message that has been locked. You cannot move it, erase it. Set "LOCK" to "OFF" in the menu before editing the

ERR ACCESS ERR 01 - ERR 06

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

HOLD • The HOLD function is activated. Slide the HOLD switch in the direction opposite that of the arrow. For details on the HOLD function, see "Preventing Accidental Operation (HOLD)."

System Limitations

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

You cannot record messages up to the maximum recording time.

- If you record messages in a mixture of HQ, SP and LP modes, the recordable time varies from the maximum HQ mode recording time to the maximum LP mode recording
- The sum of the number on the counter (elapsed recording time) and the remaining recording time may be less than the IC recorder's maximum recording time.

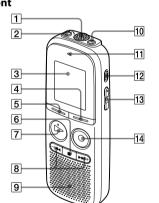
Getting Started

Step 1: Checking the Contents of the Package

IC Recorder (1)

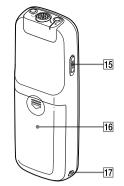
LR03 (size AAA) alkaline batteries (2) **Operating Instructions**

Index to parts and controls



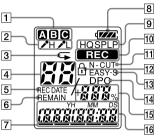
- 1 Built-in microphone
- 2 (microphone) jack*
- 3 Display window
- 4 FOLDER button
- **5** MENU button **6** ■ (stop) button
- **7** ► PLAY/STOP•ENTER button*
- **8** ► (review/fast backward), ▶►I+ (cue/fast forward) button
- **9** Speaker
- 10 (headphone) jack
- 11 Operation indicator 12 ERASE button
- 13 VOL (volume) -/+* button
- **14** REC/PAUSE button
- * These buttons and the jack have a tactile dot. Use it as a reference point for operations, or to identify each terminal.

Preventing **Accidental**



- 15 HOLD switch
- **16** Battery compartment
- 17 Strap hole (A strap is not supplied.)

Display window



1 Folder indicator Displays the folder (A, B, or C) you 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 Repeat play indicator Appears when a message is played back repeatedly.

4 Selected message number

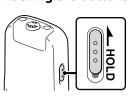
[5] REC DATE (recorded date) indicator The recorded date or time is displayed with the REC DATE indicator

6 REMAIN indicator When the IC recorder is in the recording or stop mode, the remaining recording time is displayed with the REMAIN indicator, or when the IC recorder is in the playback mode, the remaining time of the current message is displayed with the REMAIN

- indicator. **7** Remaining memory indicator Displays the remaining memory and decreases one by one during recording.
- 8 Battery indicator Displays the remaining battery power.
- **9** Recording mode indicator Displays the recording mode set using the menu when the IC recorder is in the stop mode, and displays the current recording mode when the IC recorder is in the playback mode. For details about the settings, see "Menu settings" on the reverse side of this paper.
- 10 **REC** (recording) indicator Appears while the IC recorder is recording
- 11 N-CUT (noise cut) indicator Appears when "N-CUT" is set to "ON" in the menu
- 12 Lock indicator Appears when "LOCK" is set to "ON"
- [13] EASY-S (easy search) indicator Appears when the "EASY-S" is set to
- 14 DPC (Digital Pitch Control) indicator Appears when the "DPC" is set to "ON"
- 15 Total number of messages in the folder/ DPC setting
- 16 Elapsed time/Remaining time/Recorded date or time indication/Message

Operation (HOLD)

Locking the buttons



Slide the HOLD switch in the direction of the arrow in the recording or playback mode. When the HOLD function is activated, the vellow marking appears beside the switch. "HOLD" will flash, indicating that all the functions of the buttons are locked.



Unlocking the buttons

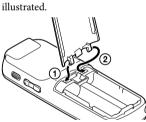
Slide the HOLD switch in the opposite direction from that of the arrow so that all buttons will be unlocked.

∏ Note

When the HOLD function is activated during recording, all the functions of the buttons are locked to prevent accidental operation. To stop recording, cancel the HOLD function first.

Step 2: Preparing a **Power Source**

Slide and lift the battery compartment lid, insert LR03 (size AAA) alkaline batteries with correct polarity, and close the lid. If the battery compartment lid is accidentally detached, attach it as



ΰ Tips

• Messages recorded are not erased even when

you replace the batteries • Even if you do not use the IC recorder, the batteries are consumed slightly. The battery life in this case varies depending on humidity or other environmental conditions. Usually, the batteries last about 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

remove the batteries.

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- **■** Notes • Do not use manganese batteries for this IC
- recorder. • When replacing the batteries, be sure to replace both batteries with new ones.

When to replace the batteries

The battery indicator in the display window shows the battery condition.

Battery remain indication : Replace the current batteries with new ones.

: "LO BATT" flashes and the IC recorder will stop operation.

Step 3: Turning the IC Recorder On

Slide the HOLD switch down in the

When you are not using the IC recorder, you can prevent the batteries from getting 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

Ö Tips

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

Step 4: Setting the Clock

Remove the protective film on the display window before you use the IC recorder. The clock setting display appears every time you replace batteries, and the approximate time when you last operated the unit before replacing the batteries is displayed. You must set the clock to the current time again.

Setting the clock after preparing a power source

1 Set the year.

Select the last two digits of the year. When you press [► PLAY/ STOP•ENTER], the cursor moves to the



2 Set the month, day, hour, and Press $[-I \triangleleft \blacktriangleleft]$ or $[\blacktriangleright \blacktriangleright I +]$ to select the desired figures, and then press

[► PLAY/STOP•ENTER]. When [■ (stop)] is unintentionally pressed during clock setting mode, the clock setting is canceled. Use the menu to set the clock.

Setting the clock using the

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

1 Press [MENU] to enter the menu mode.

"SET DATE," and then press [► PLAY/STOP•ENTER]. **3** Press [-**|**←**|**] or [**>**→**|**+] to set

Press [MENU] to return to the previous operation.

■ Notes

- You can set the time display for the clock to "12H" (12-hour display) or "24H" (24-hour display) in the "HOUR" menu. When "12H" (12-hour display) is set, "AM" or "PM" appears in the display window
- If you do not press [► PLAY/ STOP•ENTER] within 1 minute of entering the clock setting data, the clock setting mode is canceled and the window will return to the stop mode display.

● REC/PAUSE

The memory is nearly full. Flashing

> indication flashes If the remaining recording time display mode is selected, the remaining recording time display will also flash when the remaining time reaches 1 minute. The display will be changed automatically to the

> 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, erase some of the messages first.

Listening

Starting playback

- **1** Press [FOLDER] to select the folder (**A**), **B**, or **C**).
- message you want to play
- Playback will start soon.

To stop playback

Press [► PLAY/STOP•ENTER] or [■ (stop)]. To resume playback from that

To go back to previous messages Press [-**I**◀◀] repeatedly. (During stop mode, keep the button pressed to go back the messages continuously.)

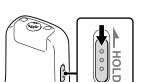
To search forward (Cue):

Press and hold [▶►1+] during playback and release it at the point you wish to resume

To search backward (Review):

release it at the point you wish to resume playback.

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



direction of an arrow.

To turn the power off

- turn off the IC recorder

Press $[-I \triangleleft \blacktriangleleft]$ or $[\blacktriangleright \blacktriangleright I +]$ to set the year.

month section.

minutes in sequence in the same way.

The menu mode will be displayed. **2** Press [-**I**◀◀] or [▶▶**I**+] to select

the year, month, day, hour, and minute in sequence, and then press [► PLAY/STOP•ENTER].

Recording

Selecting a folder

B, or **©**).

1 Press [FOLDER] to select the folder in

There are 3 folders already available

when you purchase the IC recorder.

you will record in the same folder.

1 Turn the built-in microphone in the

direction of the source to be recorded.

2 Press [REC/PAUSE] in the stop mode.

The operation indicator lights in red and

REC (recording) indicator appears in the

The new message will be automatically

recorded after the last recorded message.

The IC recorder stops at the beginning of

Press [● REC/PAUSE]. During recording

pause, the operation indicator flashes in

Press [● REC/PAUSE] again. Recording

recording after pausing recording, press

To review the current recording instantly

red and "PAUSE" flashes in the display

To release pause and resume recording

resumes from that point. (To stop

Press [► PLAY/STOP•ENTER].

To review during recording

Recording stops and playback starts

from the beginning of the message just

Press and hold [-**I**◀◀] during recording

or recording pause. Recording stops and

you can search backwards while listening

to fast playback sound. After you release

[-**I**→], playback starts from that point.

* 1 hour after you pause recording, recording

pause is automatically released and the IC

· Messages recorded using this IC recorder

You can record up to 99 messages in each

Before you start recording, we recommend

• If the recorded sound is too loud and

to / (Low). On the other hand, if

the recorded sound is too little, set the

microphone sensitivity to H(High)

distorted, set the microphone sensitivity

you make a trial recording first, or monitor

recorder enters the stop mode

will be recorded as MP3 files.

Starting to record

display window.

To stop recording

the current recording.

Other operations

To pause recording*

window.

[**■** (stop)].)

recorded.

Ÿ Tips

the recording.

1 Press [**■** (stop)].

If you do not change the folder after you

stop recording, the next time you record

which you want to record messages (A,

• While the operation indicator is flashing in red, do not remove the batteries. Doing so

■ Notes

may damage the data.

• If the IC recorder is accidentally rubbed or

scratched with an object, such as your finger,

etc., during recording, noise is recorded. Try

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

to avoid touching the IC recorder until the recording ends.

Remaining memory indication During recording, the remaining memory



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

remaining time display.

2 Press $[-I \triangleleft \neg]$ or $[\triangleright \neg I +]$ to select the

4 Press [VOL -/+] to adjust the volume.

Other operations * The following operations are for when

To stop at the current position (Playback

point, press [► PLAY/STOP•ENTER]

To go back to the beginning of the current message Press [-**I**◀◀] once*.

mode, keep the button pressed to skip the messages continuously.)

Press and hold [-◄◄] during playback and

indicator decreases one by one.

3 Press [► PLAY/STOP•ENTER].

1 Press [**■** (stop)].

"EASY-S" (Easy Search function) is set to

Pause function

To skip to the next message Press [►►+] once*. To skip to the succeeding messages Press [►►I+] repeatedly. (During stop

Searching forward/backward during playback (Cue/Review)

Erasing

□ Notes

- Once a recording has been erased, you cannot retrieve it
- If the message you want to erase is locked in

Selecting a message and erasing it

- **1** Select the message you want to erase when the IC recorder is in the stop or playback mode
- **2** Press [ERASE] while you are playing back the message you want to erase, or press and hold [ERASE] during the stop

A beep will sound and the message number and "ERASE" will flash. When "BEEP" in the menu is set to "OFF," no beep sound will be heard.



3 Press [ERASE] again

"ERASE" appears in the display window and the selected message will be erased. Not pressing [ERASE] for one minute cancels erasing.

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

To cancel erasing

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

Guide to Better Sound

Recommendations for a trial recording

The recording environment varies from situation to situation. The dimensions of a room, the loudness of speech, or a location near noisy equipment can make a difference, etc. The desired sound quality also differs depending on the purpose of the recording.

Therefore, a trial recording is very useful to avoid missing an important recording, or to create an environment to record sound with the ideal quality.

About sound that might be recorded as noise

Sounds that cause noise

The IC recorder may record various sounds other than voice, and the sounds will be heard as noise











Sounds that occur when you touch the IC recorder (touch noise)

- Rustling sounds of your clothes (when
- putting the IC recorder in your pocket) • Vibration sounds (when putting the IC recorder on a desk or a piano, etc.)
- Noise from air conditioner, projector, PC, etc.
- Extra ambient sounds (when recording a lecture or a lesson)
- Breath hitting the microphone when
- recording near your mouth (pop noise) • Noise caused when recording in long play recording mode ("LP")

To reduce recording noise

- Touch noises may be recorded when you touch the IC recorder during recording. Try to avoid touching the IC recorder until the recording ends.
- Move the IC recorder far from the sound source, or eliminate the noise
- · Select the best recording mode according to the situation. We recommend you to set the recording mode to the highquality mode ("HQ") when you are concerned about ambient noise.
- Select the best microphone sensitivity according to the situation. Please try to lower the setting of the microphone sensitivity when the ambient sounds become noise and it is not easy to hear the target sound.

Techniques for Better Recording

The IC recorder allows you to record in a variety of situations. This section introduces easy recording setup for 2 typical scenes.

To record a meeting





Tips for setup

- The noise of vibration, etc., transmitted from the desk can be reduced by putting a handkerchief under the IC record
- Record near the speaker.

To record voice memos or dictation



Tips for setup

- When recording, hold the IC recorder beside your mouth to avoid breathing into the built-in microphone.
- When you record holding the IC recorder in your hand, please note that the sounds from touching the IC recorder (touch noise) are

For better recording and playback

- To obtain the best recording results, perform a trial recording in advance.
- The IC recorder has a noise cut function. The noise cut function reduces the noise, therefore you can hear the recorded file more clearly.

About the Menu Function

Making Settings for the Menu

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

2 Press [-**|**◀**4**] or [**▶>**|+] to select the menu item for which you want to set, and then press [► PLAY/STOP•ENTER].

3 Press $[-I \triangleleft \blacktriangleleft]$ or $[\triangleright \triangleright I +]$ 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 canceled and the window will return to the normal display.

To return to the previous window Press [MENU] during menu mode.

To exit the menu mode

Press [■ (stop)].

Menu settings

*: Initial setting

MODE

Sets the recording mode.

HQ*: High-quality monaural recording mode (44.1 kHz/128 kbps) You can record with monaural high-quality SP: Standard play monaural recording mode

(44.1 kHz/48 kbps) You can record with standard quality

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

☑ Note

You cannot change the recording mode while recording.

SENS

Sets the microphone sensitivity.

H*: To record a sound far away from the IC recorder or a low sound, such as 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)

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.

Ϋ́ Tip

Recording pauses when the sound level is too low during recording ("VOR PAUSE" flashes). Recording starts again when the sound level increases.

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% decrements for the - setting. OFF*: The DPC function is canceled.

N-CUT

Sets the noise cut function.

ON: 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. OFF*: The noise cut function does not work.

□ Note

The effect of the noise cut function may be different depending on the condition of the recorded voice.

Sets the easy search function

ON: You can go forward for about 10 seconds by pressing [►►I+] and go back for about 3 seconds by pressing [-◄◄]. This function is useful when attempting to locate desired point in a long recording.

OFF*: The easy search function does not work. When you press $[\blacktriangleright \blacktriangleright \downarrow \downarrow \downarrow]$ or $[- \blacktriangleright \downarrow \downarrow \downarrow]$, a message will be moved forward or backward.

ELAPSE*: During recording, the recording time of the current message
During playing back, the elapsed playback time of one message

REMAIN: During recording or being stopped, the available recording time

During playing back, the remaining time of

the message REC DATE: Recording date REC TIME: Recording time

SET DATE

DISPLAY

Sets the year, month, day, hour, and minute in sequence.

HOUR

Sets the clock display. 12H: AM12:00 = midnight, PM12:00 = noon

24H*: 0:00 = midnight, 12:00 = noon

ON*: A beep will sound to indicate that an OFF: No beep sound will be heard.

operation has been accepted or an error has

Sets whether a beep will be heard or not.

Locks the message so that you cannot move it, erase it. ON. The lock function is activated

OFF*: The lock function is canceled MOVE The selected message will be moved to the

selected folder (A, B, or C). 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

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.

When you are using the built-in speaker or monitoring the recording, the noise cut function may not be effective

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 "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).

cable, see "Specifications." **2** Press [FOLDER] to select the folder in which you want to record messages (A.

For details about the audio connecting

B, or **C**). **3** Press [● REC/PAUSE] to start recording.

If the input level is not strong enough, adjust the microphone sensitivity on the IC recorder. When a plug in power type microphone

The built-in microphone is automatically

recorder. **4** Press [**■** (stop)] to stop recording.

supplied to the microphone from the IC

is connected, power is automatically

supplied) to record sound from a telephone

For details on how to make the connection,

refer to the operating instructions supplied

with the ECM-TL3 microphone.

Other Playback Operations

Convenient Playback

To listen with better sound quality

headphones to the \(\int \) (headphone) jack.

The built-in speaker will be automatically

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

you wish to start playback by pressing

[-**I**◀◀] or [▶▶**I**+] repeatedly during

You can go back approx. 3 seconds by

pressing [-I◀◀] once, or advance approx.

10 seconds by pressing [►►I+] once. This

To play back a message repeatedly

function is useful for locating a desired

point in a long recording.

played back repeatedly.

Equipment

supplied).

same time.

During playback, press and hold

[► PLAY/STOP•ENTER] until "←"

appears. The selected message will be

Recording on Other

You can record the message of the IC

Before you start recording, we recommend

1 Connect the ∩ (headphone) jack of the

(stereo minijack) of other equipment

using an audio connecting cable (not

For details about the audio connecting

2 Press [► PLAY/STOP•ENTER] to start

playback and at the same time set the

connected equipment to the recording

A message from the IC recorder will be

recorded on the equipment connected.

3 Press **■** (stop) on the IC recorder. Also

stop the connected equipment at the

IC recorder to the audio input connector

recorder on other equipment.

you to make trial recording first.

cable, see "Specifications."

To resume normal playback, press

[► PLAY/STOP•ENTER] again.

To listen with the headphones

Connect a commercially available

• To listen from an external speaker:

supplied) to the Ω (headphone) jack.

Quickly locating the point you

wish to start playback (Easy

□ Note

or a cell phone.

Methods

disconnected

Search)

playback.

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

To record sound from a telephone **Precautions** or a cell phone

You can use the ECM-TL3 headphone-On power type electret condenser microphone (not

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. You cannot charge the rechargeable

batteries using the unit.

Additional Information

On safety

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

On handling

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

static electricity On maintenance

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

electricity by wearing non-synthetic

clothes that prevent the emergence of

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.

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

- HQ: 75 Hz 17,000 Hz • SP: 75 Hz - 15,000 Hz
- LP: 80 Hz 3.500 Hz

• HQ: 44.1 kHz, 128 kbps

• SP: 44.1 kHz, 48 kbps

MP3 bit rate and sampling frequency for recording mode

LP: 11.025 kHz, 8 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 0.6 mV • Headphone jack (minijack, stereo) - recommended output for 16 ohms impedance headphones

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 Operating temperature 5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)*1 41.5 mm \times 114.5 mm \times 21.3 mm (1 11/16 in. \times

Mass (JEITA)*1 Approx. 76 g (2 5/8 oz) including LR03 (size

AAA) alkaline batteries *1 Measured value by the standard of JEITA

(Japan Electronics and Information

Technology Industries Association) Supplied accessories See "Step 1: Checking the Contents of the

Package." Optional accessories Electret condenser microphone ECM-CS10, ECM-CZ10, ECM-DS70P, ECM-DS30P, ECM-CS3, ECM-TL3 Audio connecting cable*2 RK-G136, RK-G139 Rechargeable battery NH-AAA-B2KN Compact charger & 2-pc AAA Multi-Use

*2 Audio connecting cable

	To the IC recorder	To the othe equipment
RK-G139	Stereo mini-plug*	Mini-plug (monaural)
RK-G136	Stereo mini-plug*	Stereo mini-plug*

^{* (}without resistor)

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.

Maximum recording time*3*4

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

HQ mode	SP mode	LP mode
33 hr.	89 hr.	534 hr.
20 min.		25 min.
	(hr. : ho	ours/min. : minutes

for a long time, you may have to replace the batteries with new ones in the midst of recording. *4 The maximum recording time varies if you

*3 When you are going to record continuously

record messages in mixed recording mode.

Battery life*5 When using Sony LR03 (SG) (size AAA)

alkaline batteries (with continuous use)				
Recording mode*6	HQ	SP	LP	
Recording		Approx. 39 hr.		
Playback* ⁷ hrough speaker		Approx. 12 hr.		
Playback using the neadphones		Approx. 36 hr.		

When using Sony NH-AAA rechargeable batteries (with continuous use)

HQ	SP	LP
	Approx. 22 hr. Approx. 10 hr. Approx.	Approx. 27 hr. Approx. Approx. 10 hr. 10 hr. Approx. Approx. Approx. 25 hr. 25 hr.

- *5 The battery life is measured in testing using methods proprietary to Sony, and with the initial settings for the IC recorder.
- *6 For details about the recording mode, see "Menu settings *7 When playing back music through the

internal speaker with the volume level set to

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